

THE CONTRACT JOURNAL

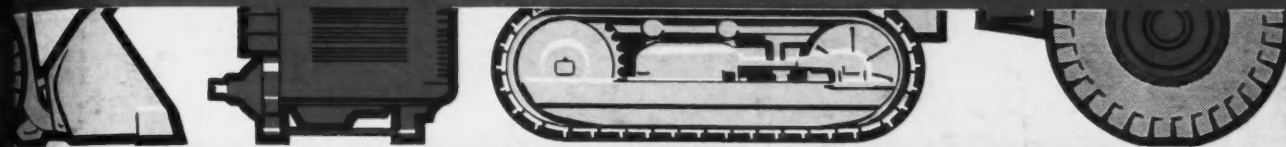
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THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

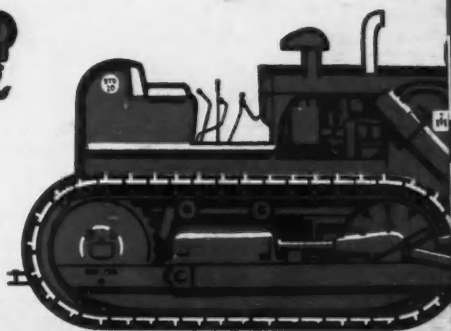
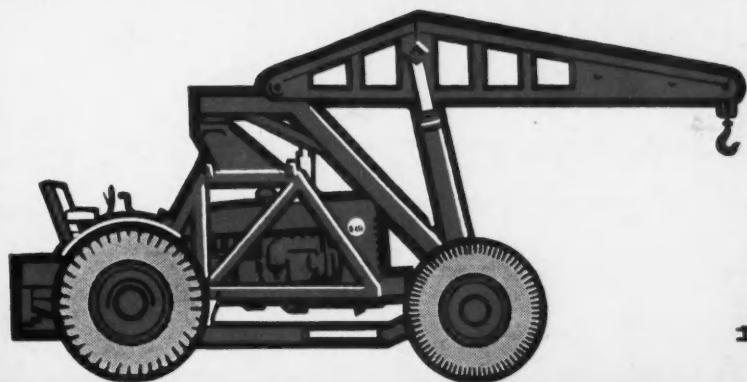
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THURSDAY, AUGUST 24, 1961

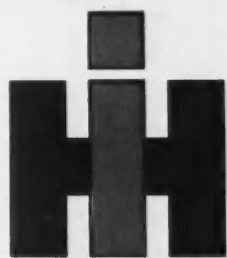
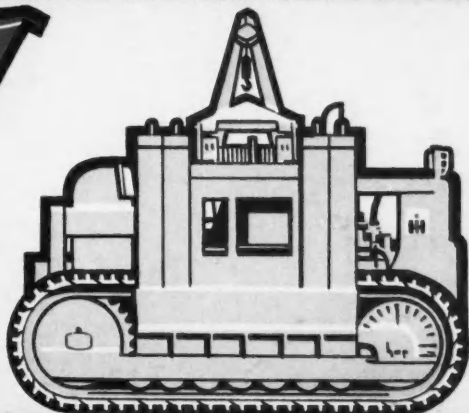
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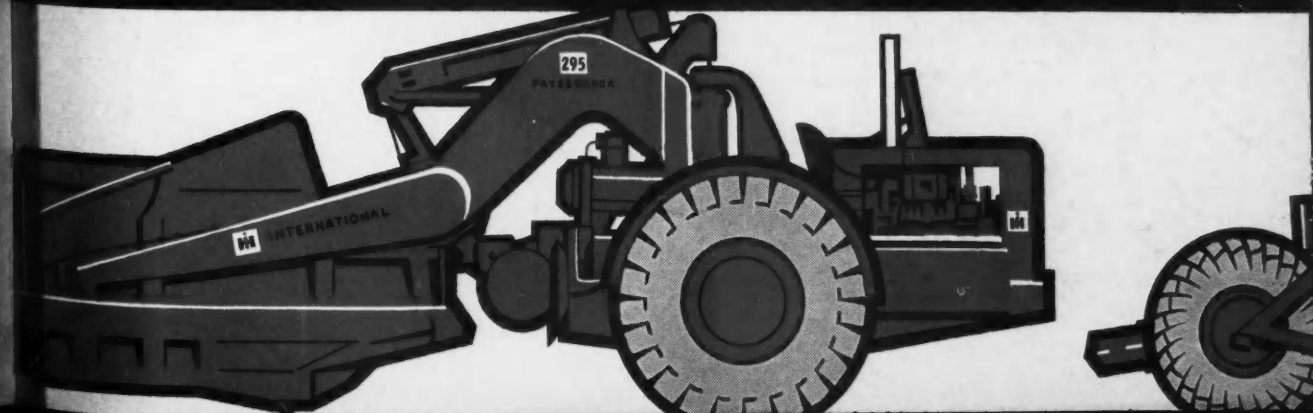
P TRUCKS)  INTERNATIONAL CONSTRUCTION EQUIPMENT 

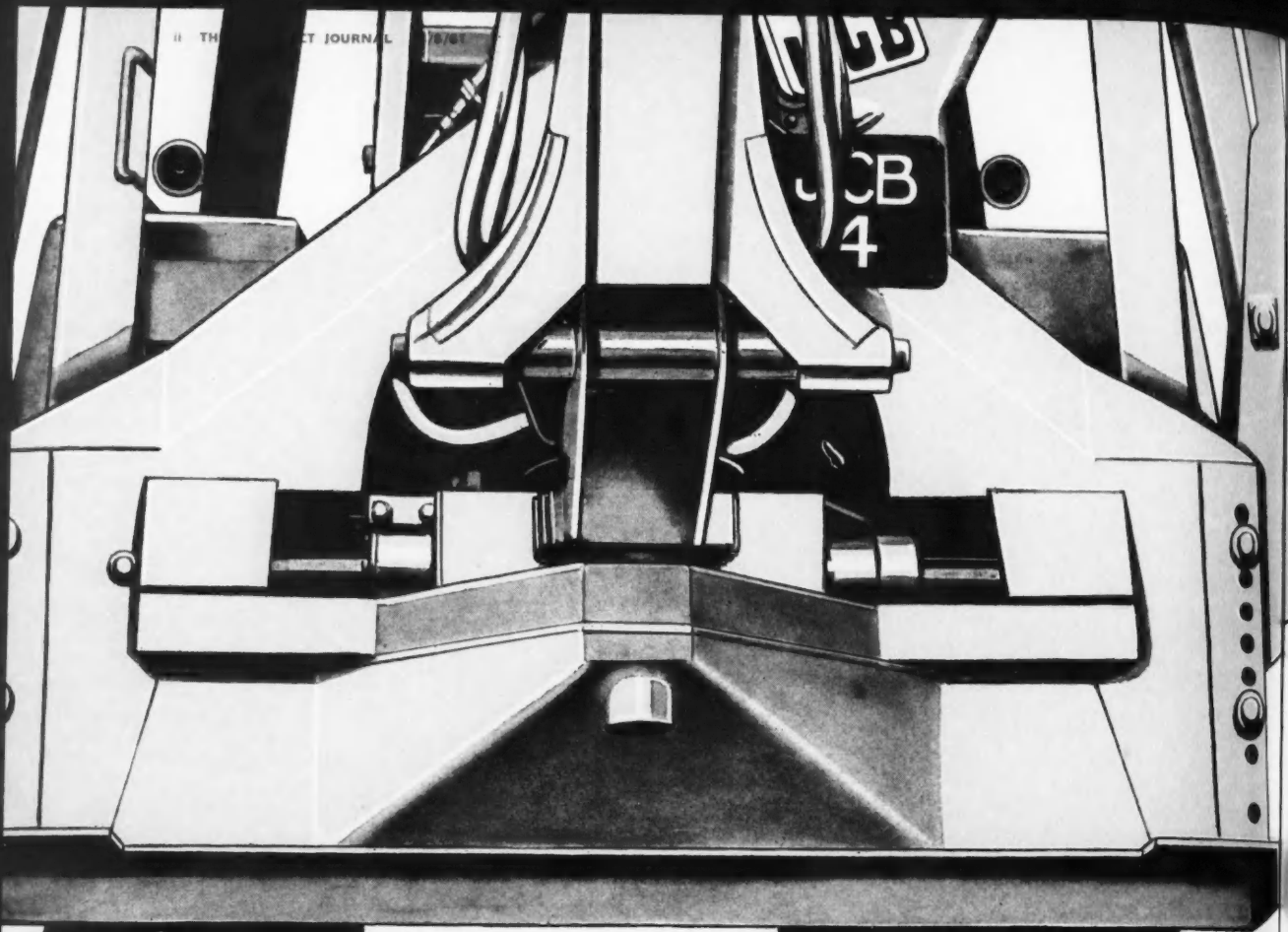


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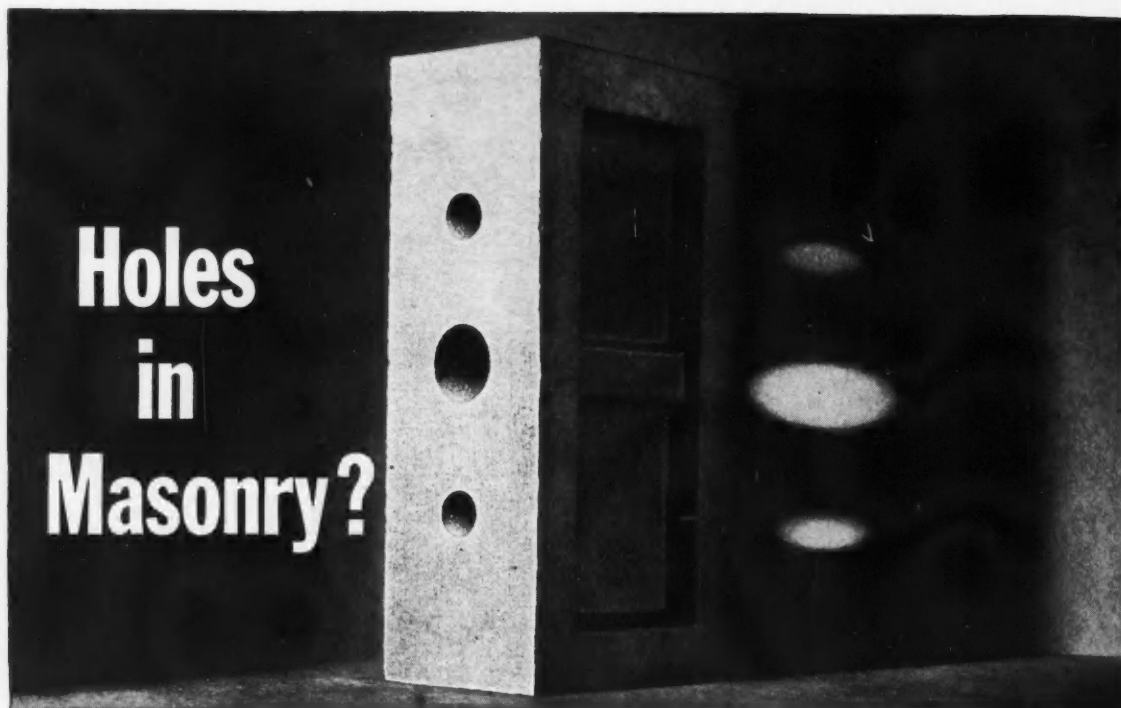
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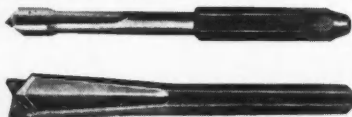
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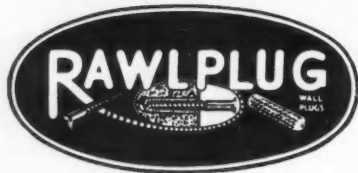


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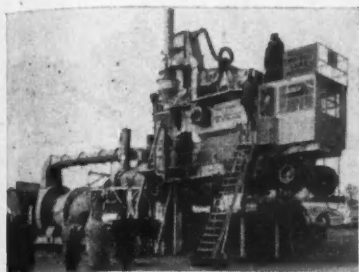
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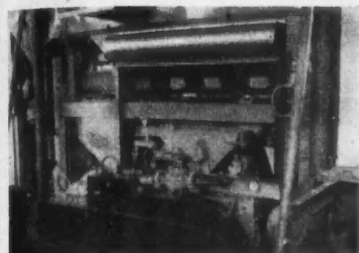
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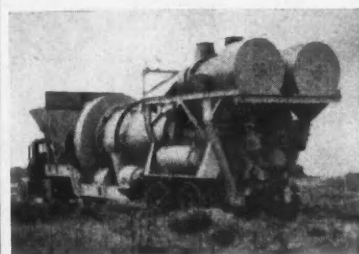
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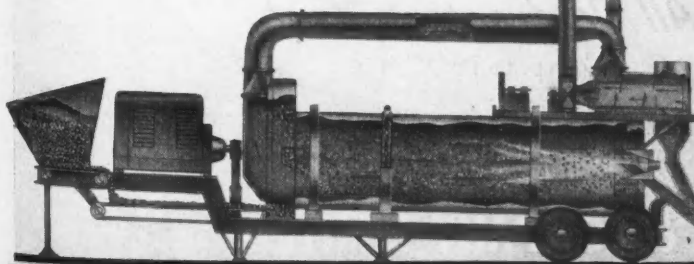
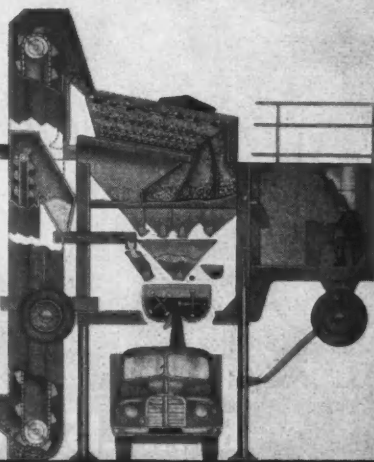
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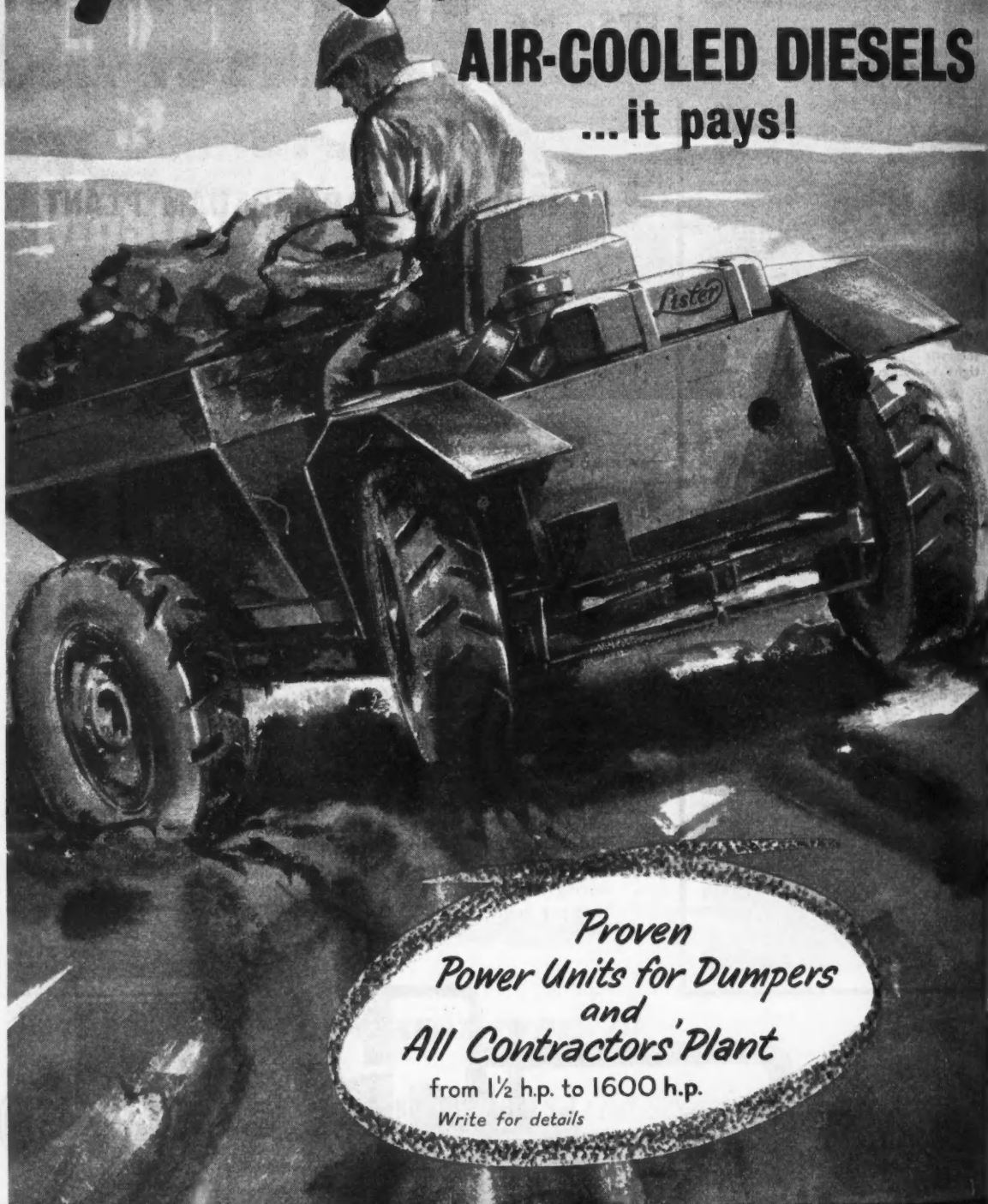
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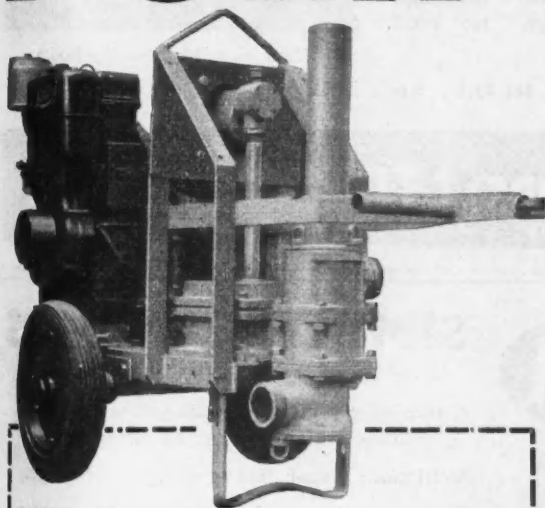
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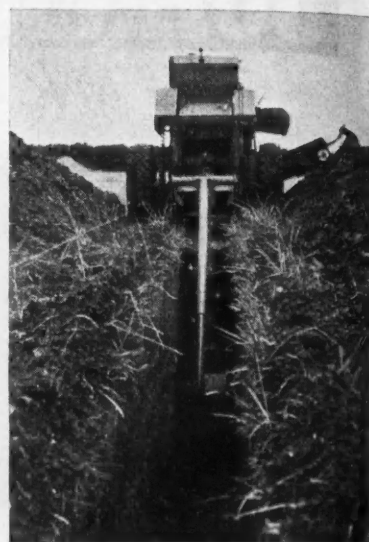
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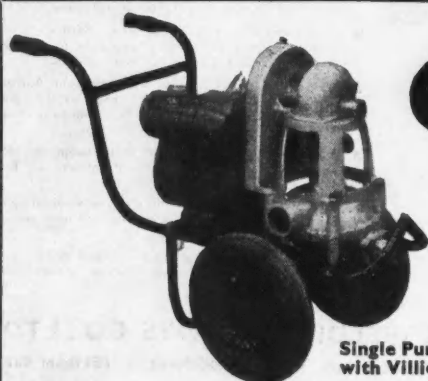


View showing trenching boom

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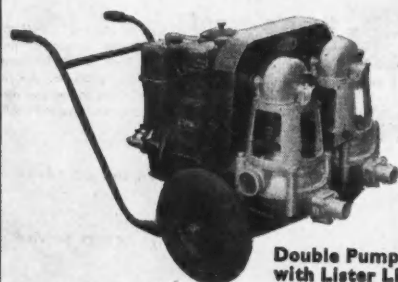
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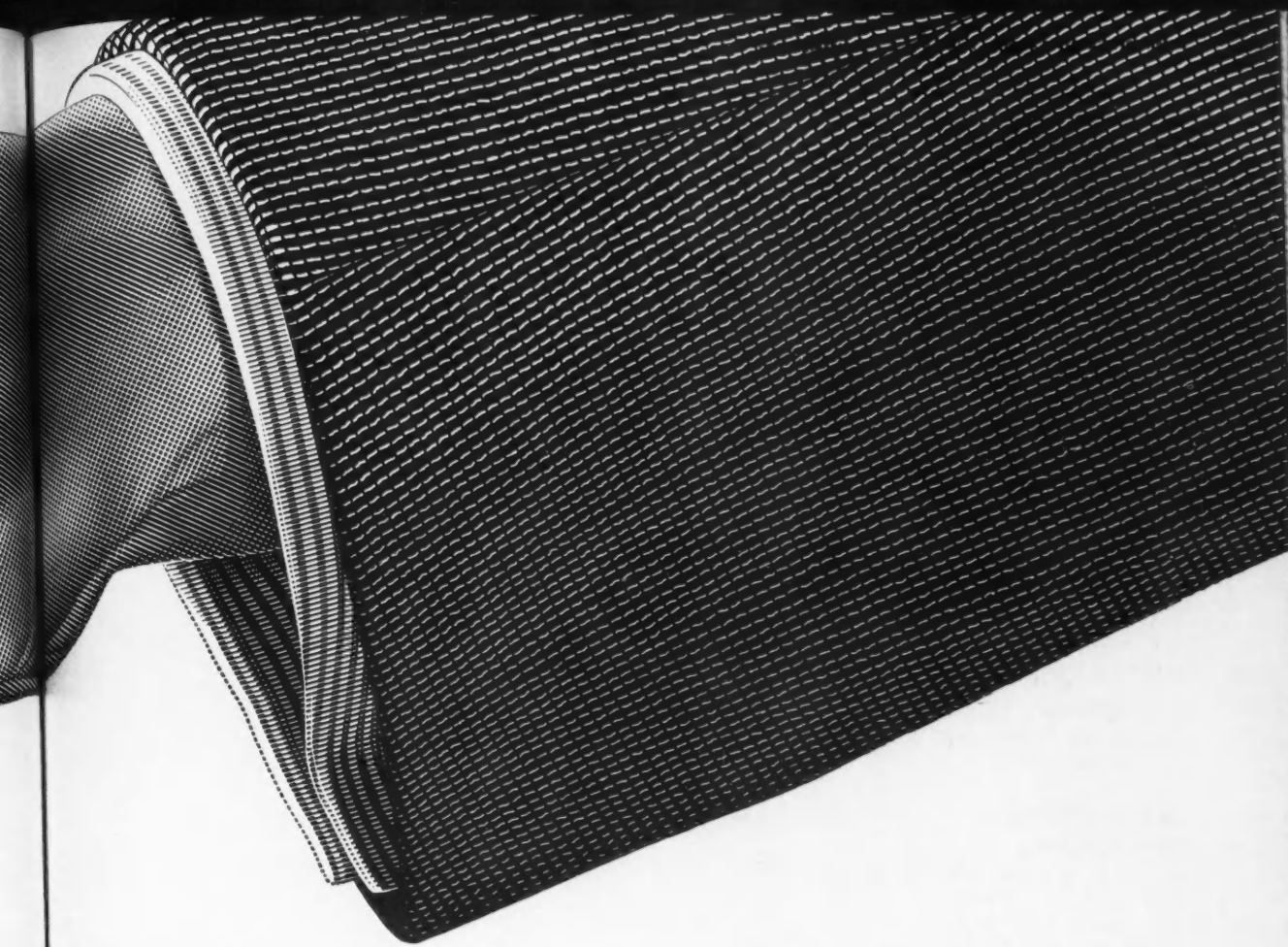
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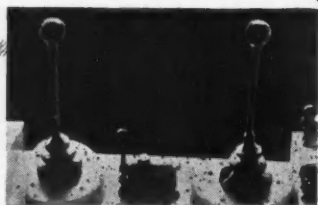
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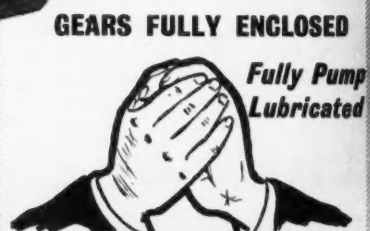
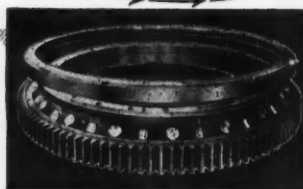
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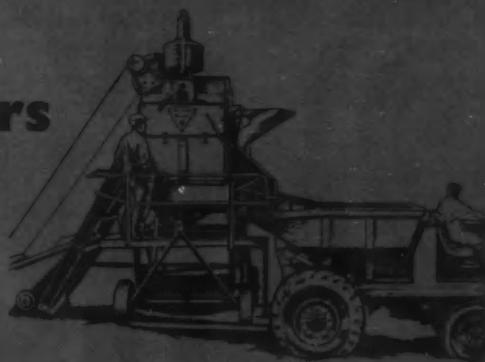
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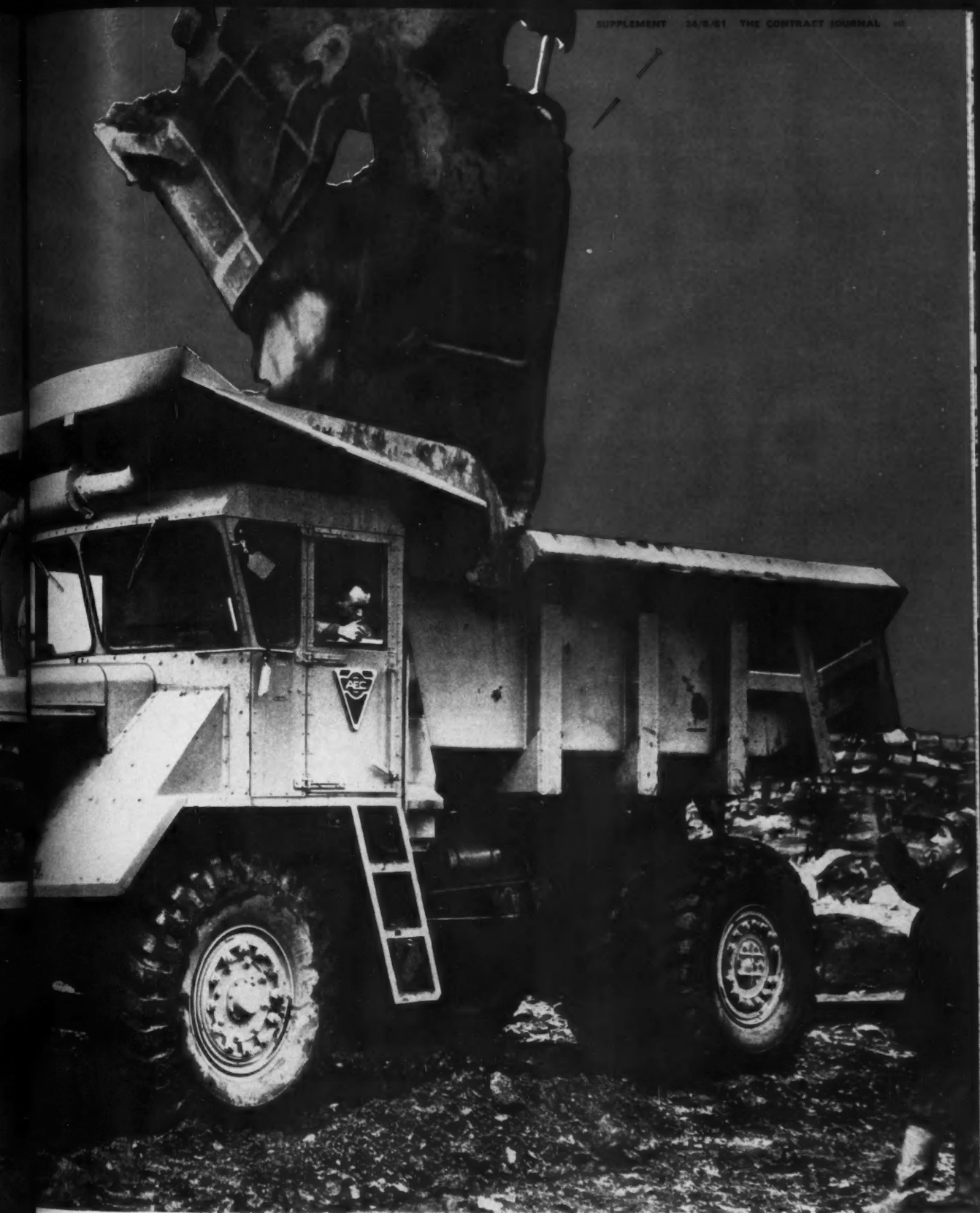
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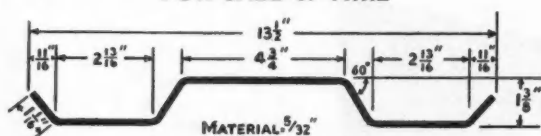
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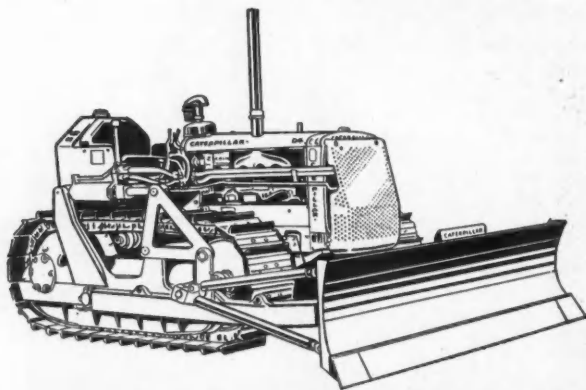
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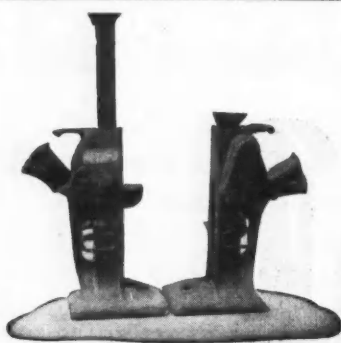
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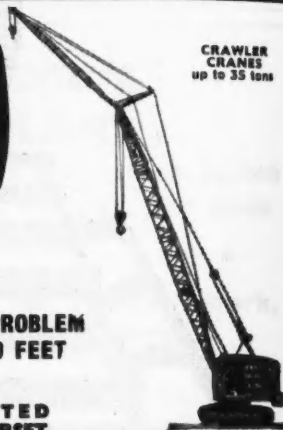
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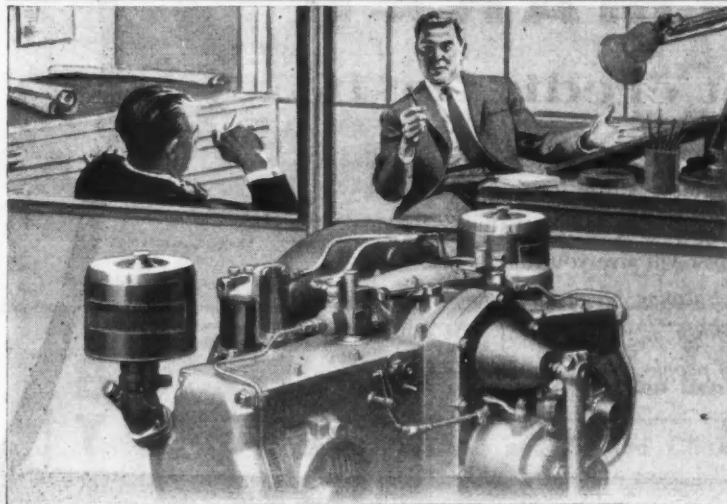
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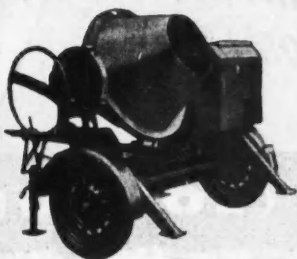
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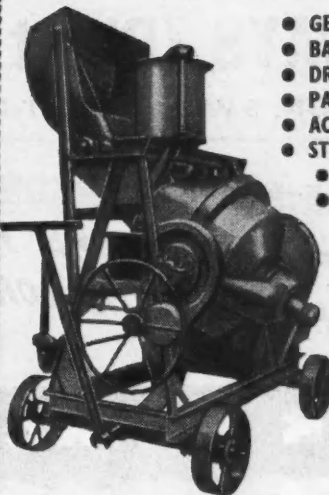
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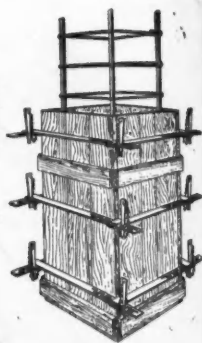
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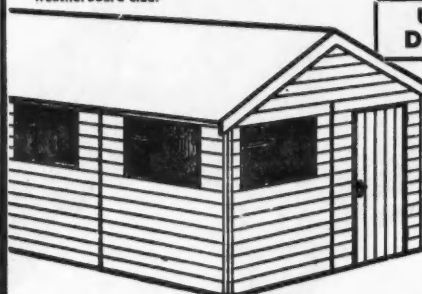
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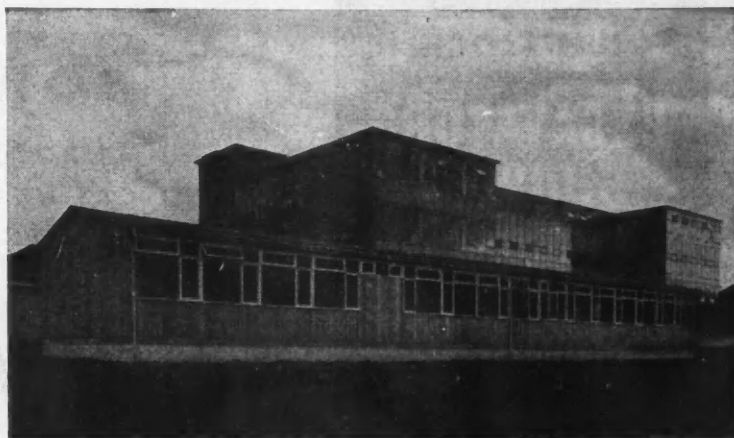
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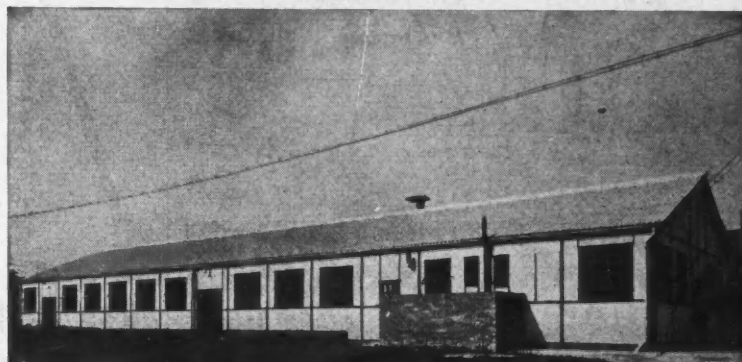
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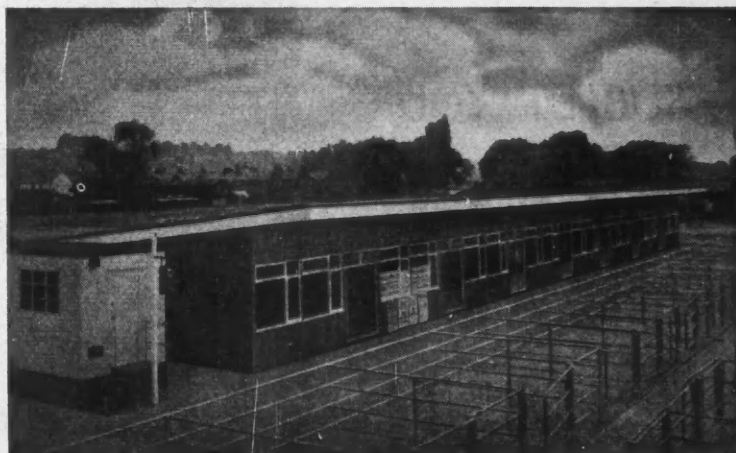
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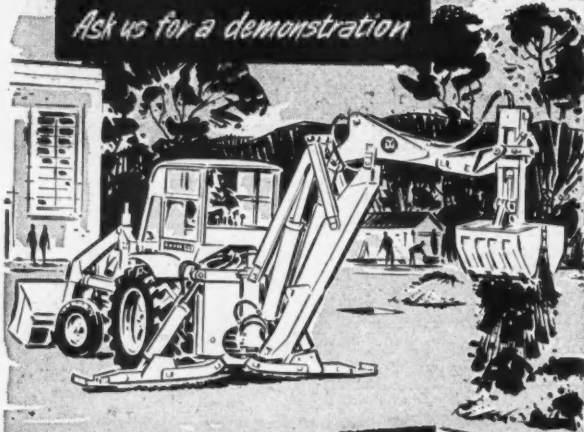
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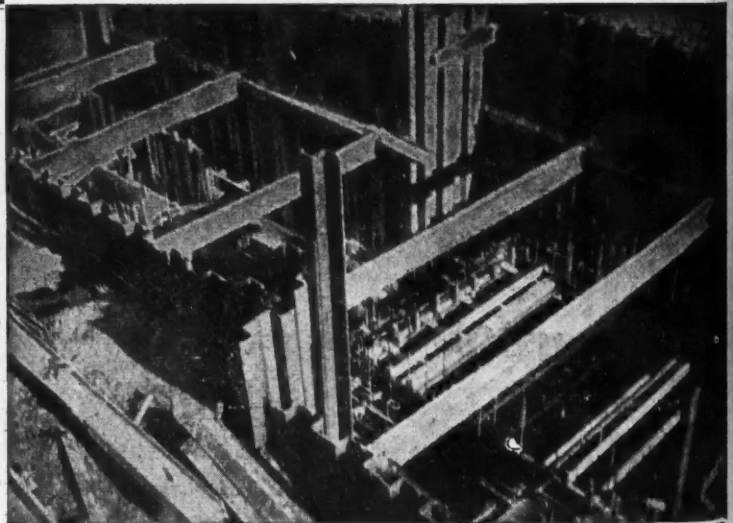
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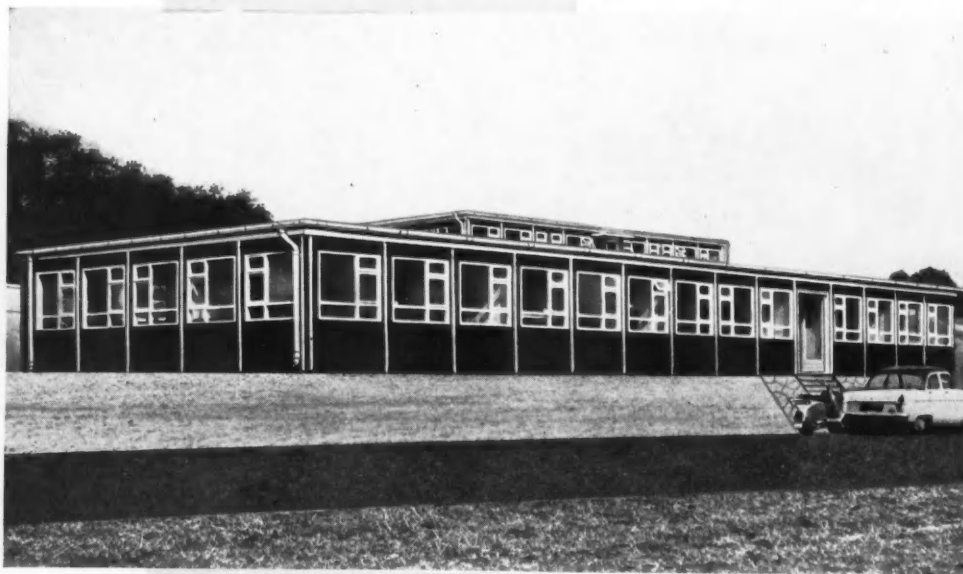
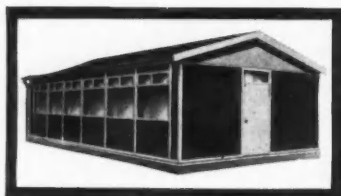
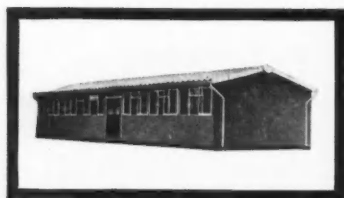
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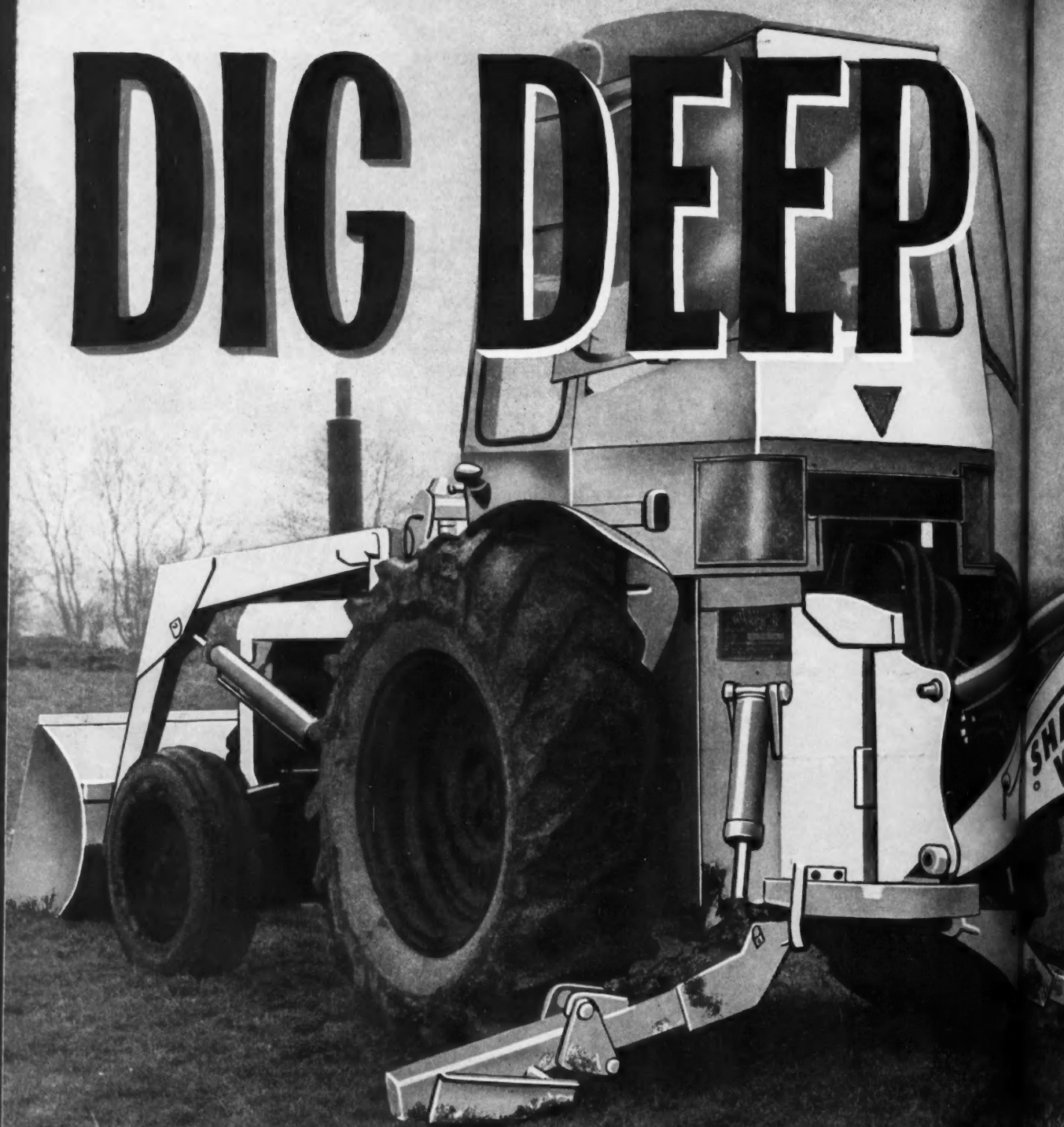
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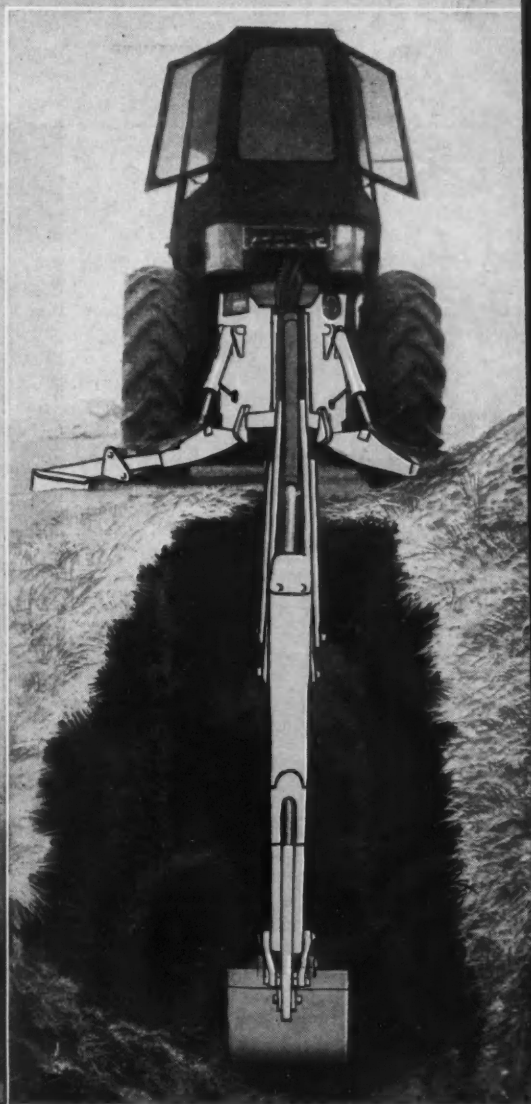
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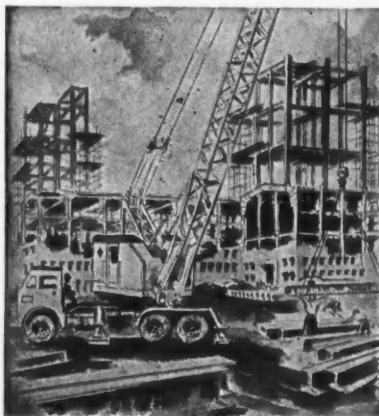
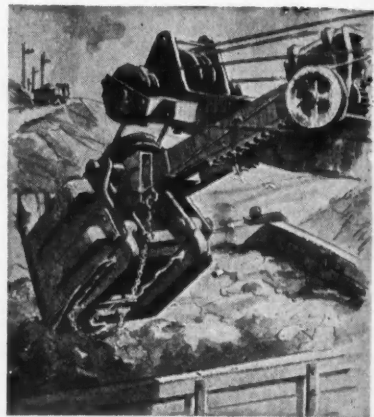


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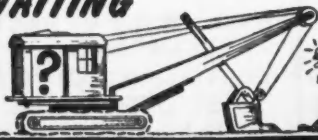
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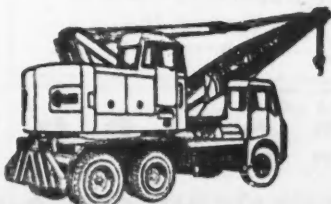
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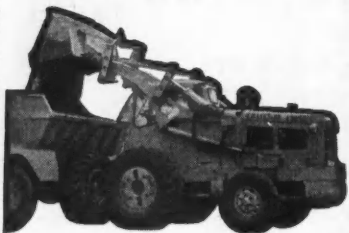
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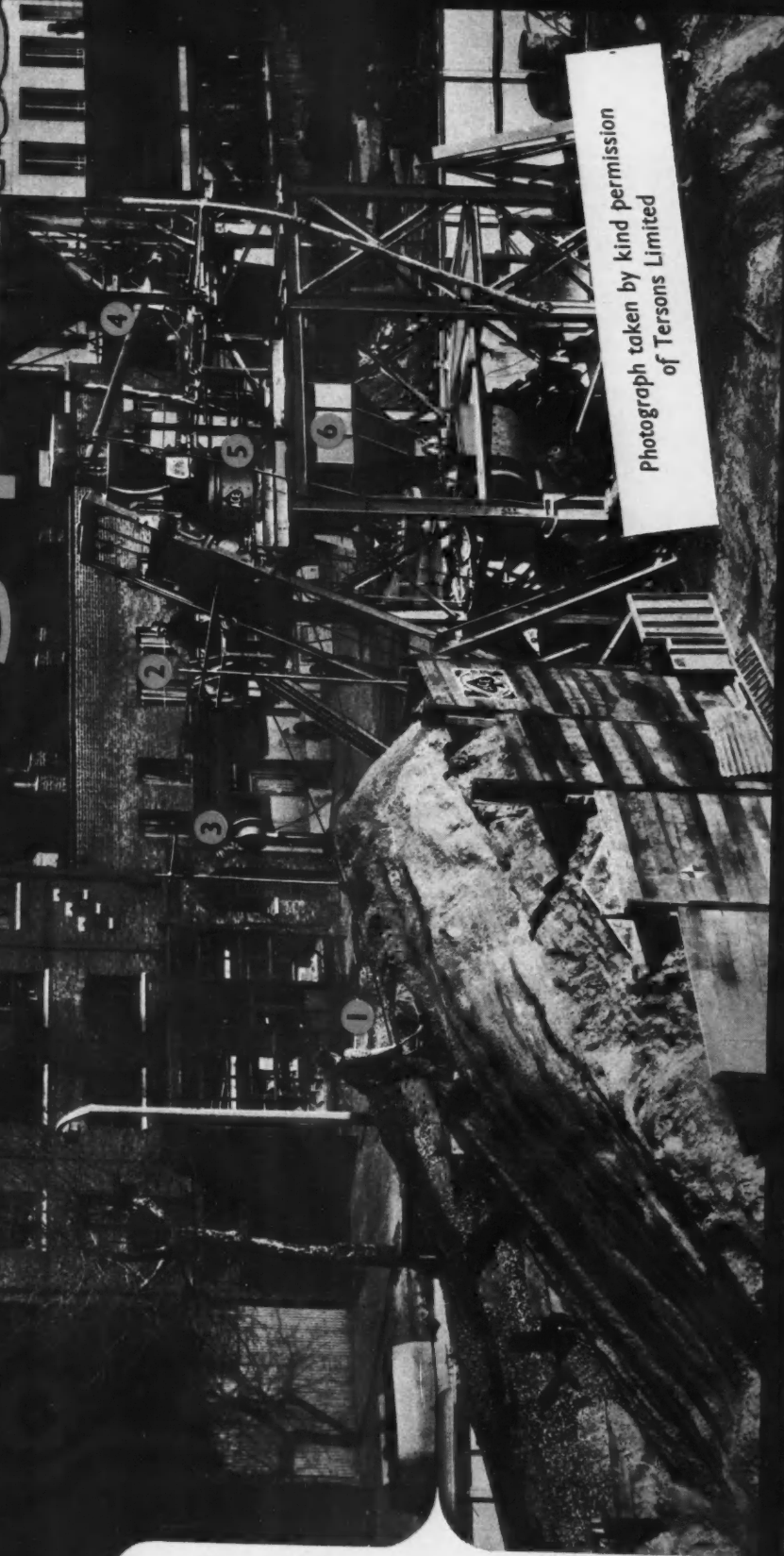
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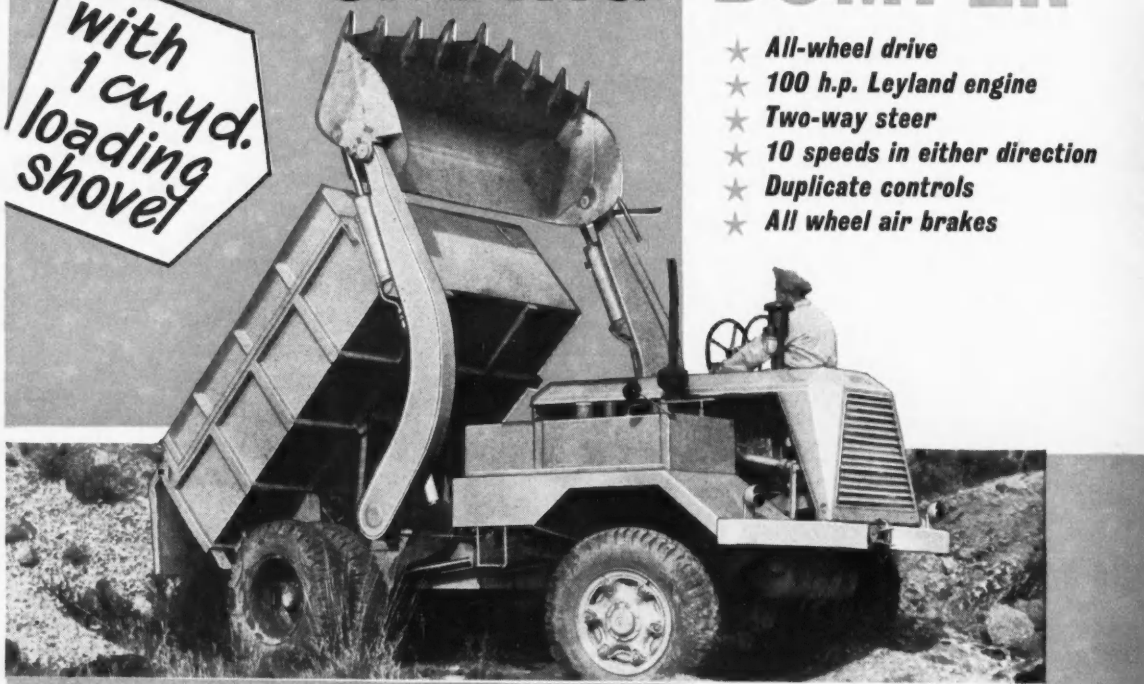
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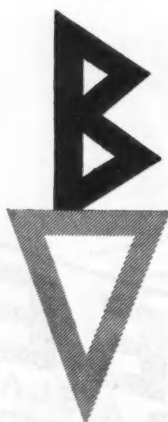
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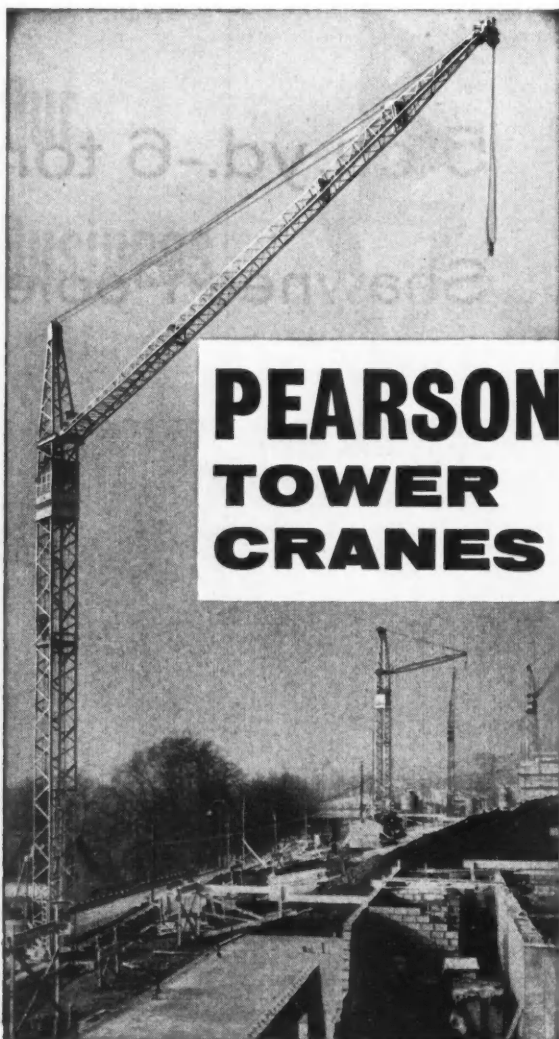
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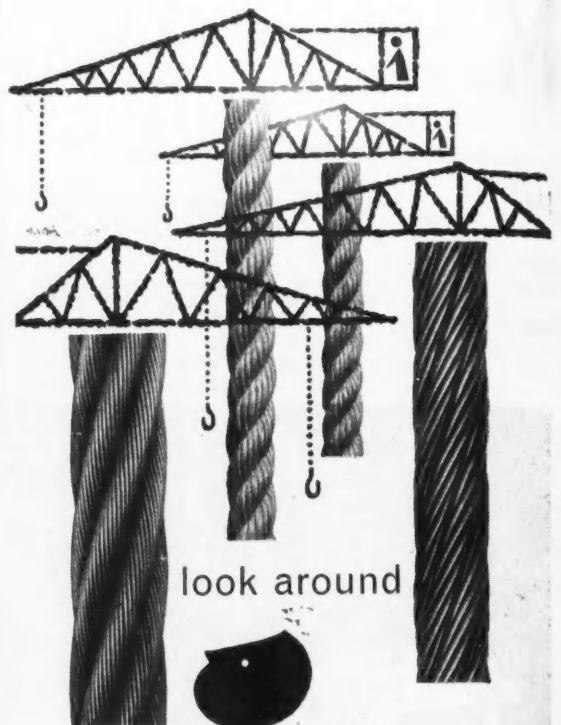
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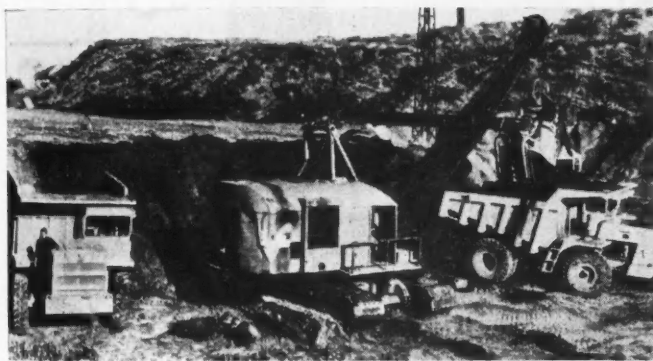


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This earthmoving job recently handled by Societa Imprese Industriali, Rome, Italy, is an excellent example of how well LeTourneau-Westinghouse Haulpak trucks can work in restricted areas. The firm used six 32-ton Haulpaks to move a hill for expansion of the ILVA Steel Mill, at Piombino.

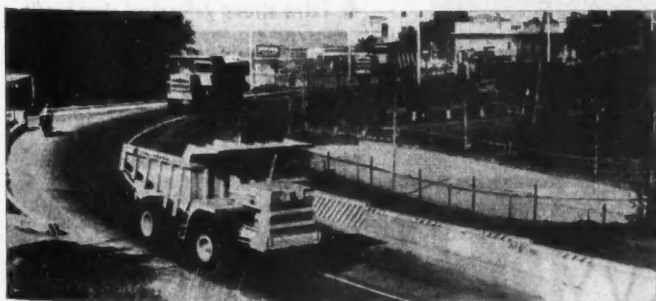
The big Haulpaks, with their positive power-steer and 44ft. 5in. turn radius, manoeuvred around crowded plant area, hauled over narrow winding roads with no difficulty.

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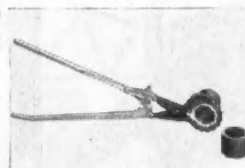
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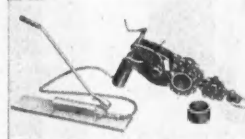
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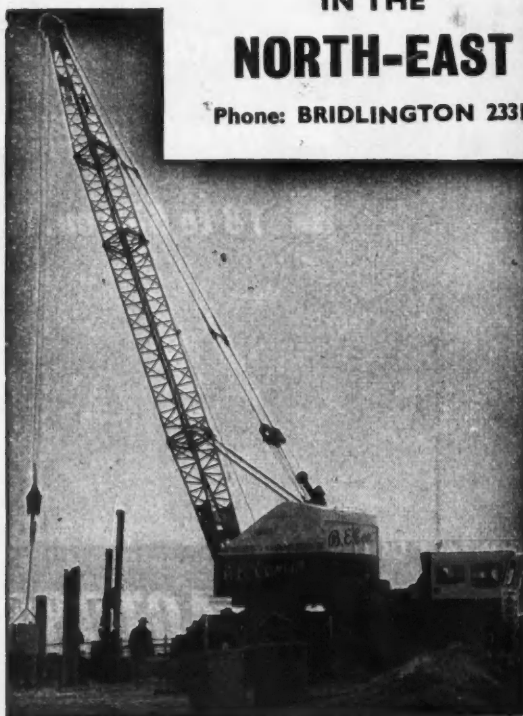
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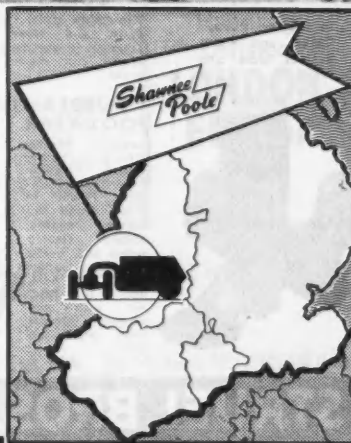
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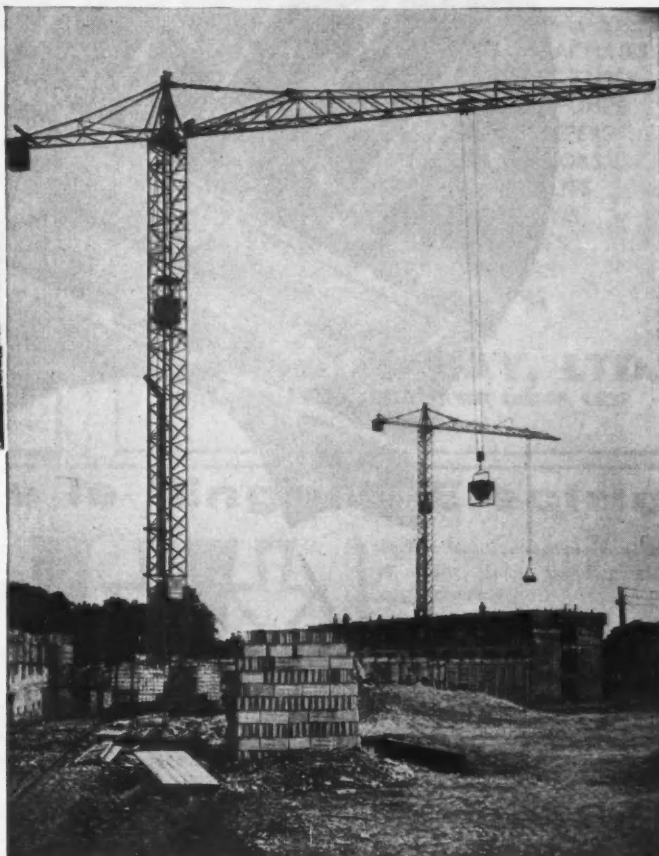
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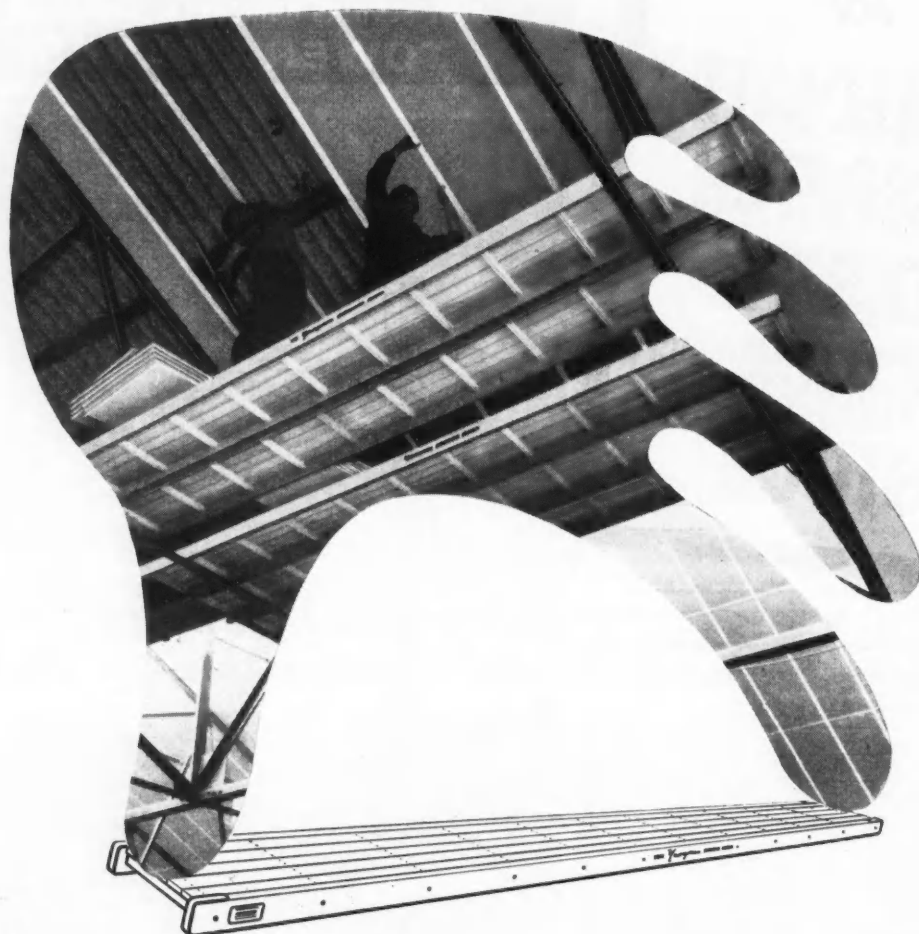
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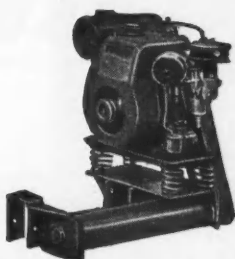
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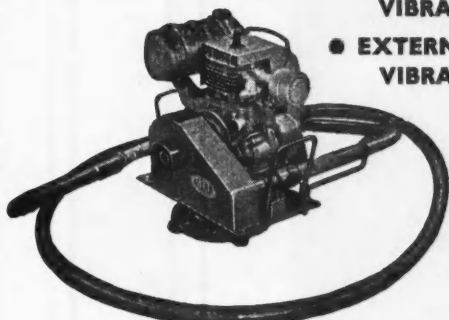
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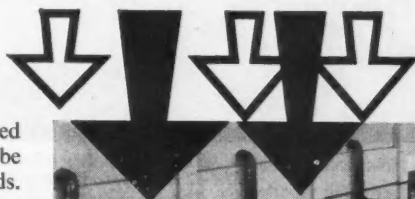
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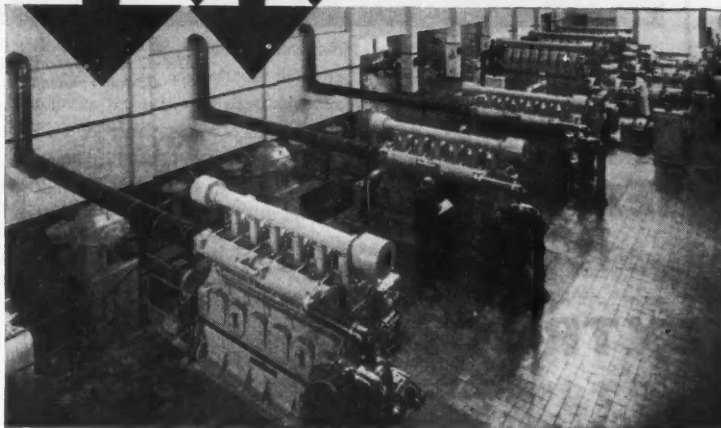
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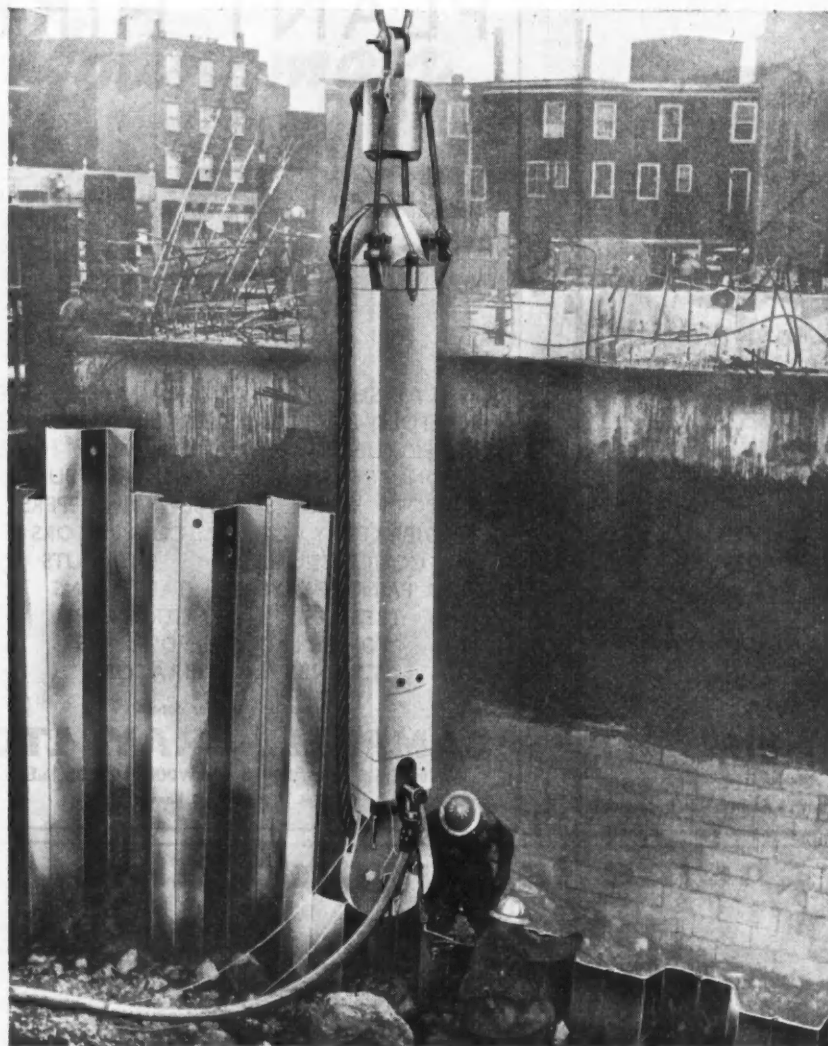
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diesel and dual-fuel engines
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THE ENGLISH ELECTRIC COMPANY LIMITED, ENGLISH ELECTRIC HOUSE, STRAND, LONDON, W.C.2

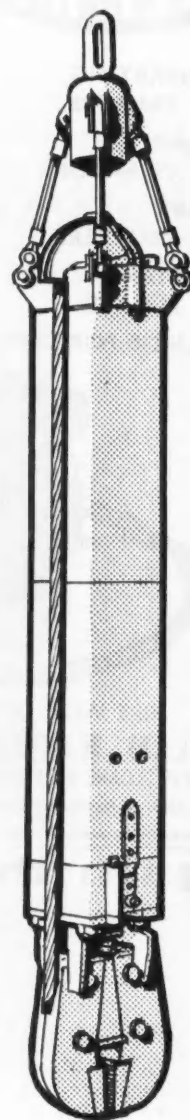
Diesel Engine Division, Brownsver Hall, Rugby. Telephone: Rugby 3391

WORK TAFFORD PRESTON - RUGBY BRADFORD - LIVERPOOL - ACCRINGTON



*HD-15 heavy-duty pile extractor pulling
MZ-32 section steel sheet piling on the East
Boston Vehicular Tunnel site in Boston,
Mass., U.S.A.*

Contractor: B. Perini Corporation.



B.S.P. HEAVY DUTY PILE EXTRACTORS

**FOR EXTRA
PULLING POWER**

B.S.P. Heavy-Duty Pile extractors are designed for pulling steel piling in difficult conditions when other types of extractor are ineffective. Two sizes are available, the HD-10 general purpose extractor for use with a pull of not less than 10 tons and the HD-15, requiring a pull of not less than 15 tons, for extracting long piles in unfavourable conditions.

Both sizes incorporate a shock absorbing suspension unit which protects the crane from harmful vibrations and combine economical steam or compressed air consumption with the ability to deliver very heavy extracting blows.

For further details write for List No. 190E/HD.



TECHNICAL REPRESENTATIVES THROUGHOUT THE WORLD

THE BRITISH STEEL PILING CO. LTD.

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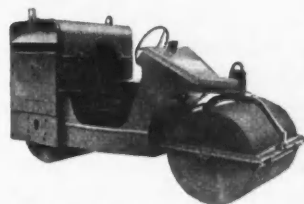
Telephone: TRAfalgar 1024

BSP 183

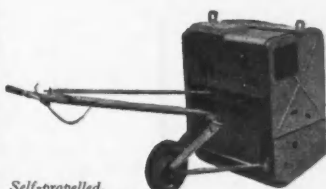
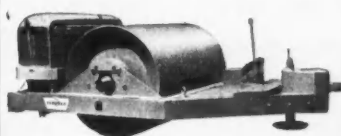


VIBROLL

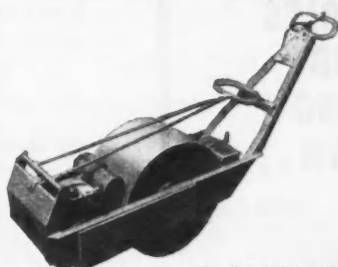
BRITISH REGD. TRADE MARK



Self-propelled 32R

Self-propelled,
hand guided 32WDSelf-propelled 42RD
(with cab)

Trailer 72T

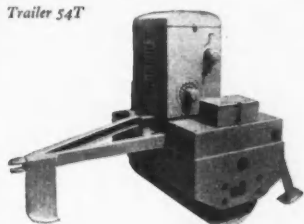


Hand-propelled 11H



Self-propelled 28R

Trailer 54T

Self-propelled,
hand guided 28W

Hand-propelled 24H

the lightweight roller with the heavyweight performance

Throughout Britain and in many countries abroad "Vibroll" vibrating rollers built by Stothert & Pitt are being used to compact such varied materials as sand, gravel, ballast, ashes, asphalt, tarmacadam, non-cohesive soils and dry mix concrete — with an efficiency unattainable with heavy deadweight rollers. Independent tests have shown that the "Vibroll" gives a better performance than a very much heavier deadweight roller; for example a 17½ cwt. "Vibroll" tandem vibrating roller needed less passes on "hot mix" to achieve the compaction obtained by a 10 ton deadweight roller. This is because the degree of compaction by a deadweight roller decreases rapidly with depth whereas the vibrating principle of the "Vibroll" creates a wide, deep volume of moving materials ensuring *uniform* compaction to a great depth.

The illustrations on this page show a selection from the range which extends from an 11H hand-propelled trench roller to a 72T trailer model. Please write for further details.

STOTHERT & PITT LTD ENGINEERS · BATH · ENGLAND

London Office: 38 Victoria Street, S.W.1

Midlands Office: Lightning Way, Alvechurch Road, West Heath, Birmingham 31

97% availability

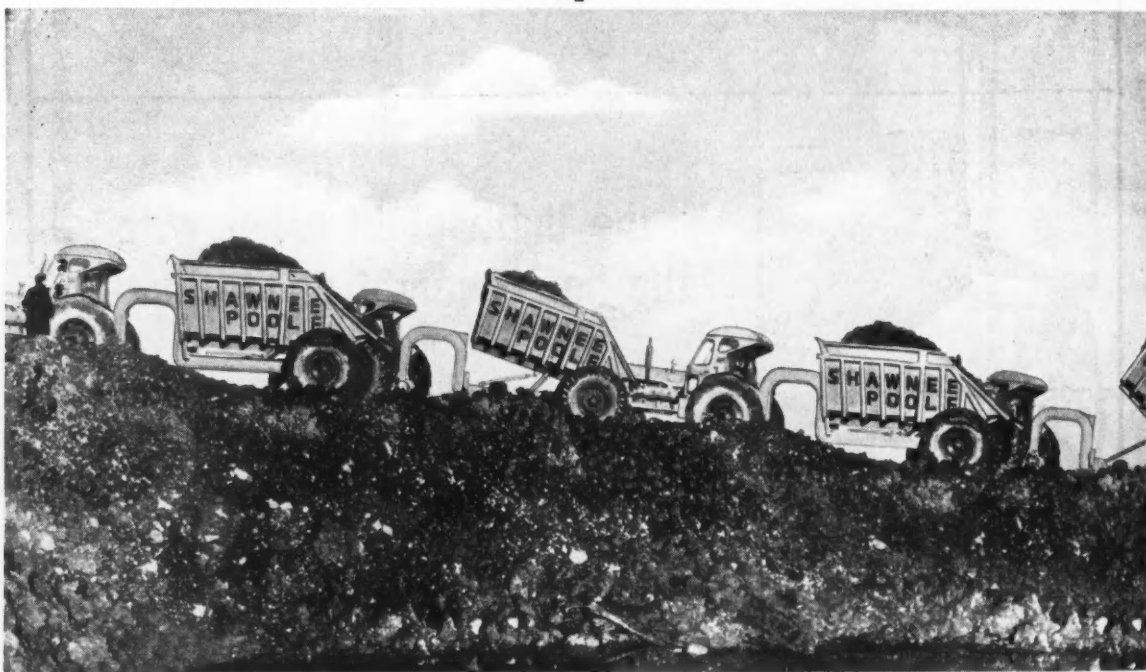
**Shawnee
Poole**

**THE SHAWNEE POOLES
GO ON WORKING
WHEN EVERYTHING
IS BOGGED DOWN**

User experience has proved an overall availability of 97%. Shawnee Poole continues to operate during the worst conditions even when other forms of transport are completely bogged down. The Shawnee Poole System with the shortest turning circle of any equipment of its kind is the world's simplest and most economical method of industrial and earthmoving haulage.

Ask for a Job Survey on your site.

The Shawnee Poole System is manufactured under British and Foreign patents granted and pending.



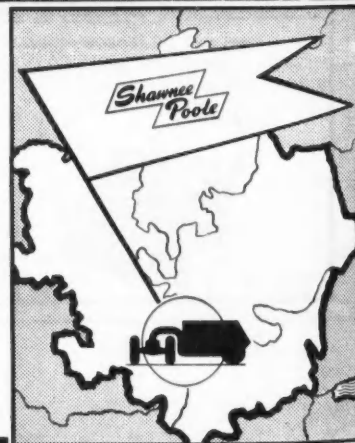
W. HAROLD PERRY LTD

CRANBORNE ROAD, POTTERS BAR, MIDDX

Telephone: POTTERS BAR 3211

Your Dealer in:

**Middlesex, Buckinghamshire, Hertfordshire
Bedfordshire**



CONTRACTS

NEW SOUTH WALES, AUSTRALIA.

DEPARTMENT OF MAIN ROADS.

MUNICIPALITY OF ROCKDALE AND SHIRE OF SUTHERLAND.

SOUTHERN EXPRESSWAY.

PROPOSED BRIDGE OVER THE GEORGE'S RIVER, BETWEEN SANS SOUCI AND TAREN POINT.

TENDERS, suitably endorsed and addressed to the Secretary, Department of Main Roads, Box 3903, G.P.O., Sydney, New South Wales, Australia, are invited from experienced bridge contractors, and will be received up to 2.15 p.m. on THURSDAY, 1st February, 1962, for the CONSTRUCTION of a SIX-LANE PRESTRESSED CONCRETE BRIDGE, 1,662ft. long, over the GEORGE'S RIVER, between SANS SOUCI and TAREN POINT, about 12 miles south of the central business area, Sydney, in accordance with the exhibited Drawings and Specifications as prepared by the Department. Tenders are to be priced in terms of Australian Currency. Copies of these Drawings and Specifications will be exhibited at the offices of the Department of Main Roads, 309 Castlereagh Street, Sydney, and the Agent General for New South Wales, 56-57 Strand, London, W.C.2.

Copies of the Specifications may be purchased from the Department of Main Roads, Sydney, or from the Agent General for New South Wales, London, W.C.2, for the sum of £1 5s. per set, and sets of half-size Drawings may be purchased from the Department of Main Roads, Sydney, at the rate of 5s. per sheet. Prices will be in Australian Currency in Sydney, and Sterling in London.

Tender forms may be obtained at each of the offices at which the Drawings and Specifications are exhibited.

R. S. JOHNSTON,

Secretary.

BOROUGH OF BRIGHOUSE.

DUST EXTRACTION EQUIPMENT.

TENDERS are required for PROVISION and INSTALLATION of EQUIPMENT to REMOVE, by mechanical or vacuumic means, Spillage from the Pit of a Refuse Elevator at the Council's Cleansing Department.

Full details may be obtained from the Public Cleansing Officer, Mill House, Huddersfield Road, Brighouse.

Tenders should reach me by the 9th SEPTEMBER, 1961.

JOHN R. LIDDLE,

Town Clerk.

CITY OF WORCESTER.

WARNDON HOUSING ESTATE—SITE COMPLETION. PART II, STAGE I.

FIXED-RATE TENDERS are invited for the ABOVE WORKS, which comprise the Surfacing of approx. 14,500 sq. yd. of existing Stone Pitched Roads, the Laying of 9,200 sq. yd. of Flag Paving, and 35,000 sq. yd. of Turf, together with other incidental works. Documents obtainable from the City Engineer and Surveyor, 22 Bridge Street, Worcester, upon payment of a Two Guinea deposit which will be returned upon receipt of a bona-fide Tender.

Tenders, in the envelope provided, to be posted to reach the undersigned not later than THURSDAY, 14th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

BERTRAM WEBSTER,

Town Clerk.

Guildhall,

Worcester.

EAST BARNET URBAN DISTRICT COUNCIL.

CONTRACT NO. 953.

PUBLIC LIGHTING—GREAT NORTH ROAD, A.1000.

FIXED-PRICE TENDERS are invited from experienced contractors for the FOLLOWING WORK, to be undertaken under one contract in two stages:

- (a) (i) The Supply and Erection of 60 30ft. mounting height Steel Columns and Brackets (specified pattern); and
- (ii) The Removal of 55 existing Mercury Vapour Lanterns and the Uprooting of 62 Steel Trolley Poles.
- (b) Supply and Fitting of 60 Lanterns for 200-W Linear Sodium Vapour Lamps, with Control Gear and Lamps (all specified patterns).
- (c) All the necessary Electrical Work in the wiring (other than jointing and servicing) of the columns and lanterns in (a) and (b) above.

Forms of Tender, Specification and Bills of Quantities may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., on payment of a deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelopes provided, must be received by not later than SATURDAY, 16th September, 1961.

The lowest or any Tender will not necessarily be accepted.

DEVON RIVER BOARD.

RIVER EXE IMPROVEMENT SCHEME.

TIVERTON—PART I.

TENDERS are invited for the CONSTRUCTION of a SYSTEM of RETAINING WALLS, FLOOD BANKS and other Flood Control Structures on the banks of the RIVER EXE at Tiverton.

The works comprise 620 lin. yd. of Reinforced Concrete Cantilever Retaining Walls, 4ft. to 10ft., Bricking-up of Openings below existing factory buildings, Modification to a small Bridge, and Making Good of existing Walls.

Copies of the Contract documents may be obtained from the Chief Engineer, Devon River Board, Topsham Road, Exeter, on payment of a deposit of £5 5s. which will be returned on receipt of a bona-fide Tender, not subsequently withdrawn. The Drawings may also be examined at that Office by appointment during normal working hours.

Tenders, in plain sealed envelopes marked "River Exe Improvement Scheme—Tiverton—Part I," must be received by me on or before the 11th SEPTEMBER, 1961.

The Board do not bind themselves to accept the lowest or any Tender.

H. G. GODSALL,

Clerk.

Devon River Board,

The Castle,

Exeter.

CONTRACTS

BOROUGH OF ILFORD.

WOODFORD AVENUE SURFACE WATER SEWER.

TENDERS are invited from contractors with considerable experience in large drainage works, for the LAYING of approx. 480yd. of 60in. dia. ARMCO PIPE, 340yd. of 4ft. 3in. x 3ft. PRECAST CONCRETE CULVERT, 2,100yd. of CONCRETE TUBES from 48in. to 18in. dia., the CONSTRUCTION of a RIVER OUTFALL, and ancillary works.

Form of Tender, Special Conditions of Contract, Specification and Bills of Quantities may be obtained from, and the Drawings and General Conditions of Contract inspected at, the Office of the Borough Engineer during normal office hours (5-day week), on payment of a deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in a plain sealed envelope bearing no name or mark indicating the tenderer, and endorsed "Tender for Woodford Avenue Surface Water Sewer," accompanied with the names of Authorities for whom the tenderer has carried out works of a similar nature, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m., TUESDAY, 26th September, 1961.

BOROUGH OF WIDNES.

CONTRACT NO. 406.

OXFORD STREET IMPROVEMENT.

TENDERS are invited for the ABOVE CONTRACT, comprising 1,020 sq. yd. Concrete Flagging, 390 lin. yd. Concrete Kerbs and Channels, Regulate 1,390 sq. yd. existing Carriageway, Lay Bitumen Macadam Wearing Course, and Construct School Access Road approx. 260 sq. yd.

Copies of Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer, Town Hall, Widnes, on payment of a deposit of £2 2s., refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelopes provided, endorsed "Oxford Street Improvement," to Borough Engineer not later than 12 Noon on WEDNESDAY, 30th August, 1961.

FRANK HOWARTH,

Town Clerk.

Town Hall,

Widnes,

July, 1961.

URBAN DISTRICT COUNCIL OF URMSTON.

TRAFFORD PARK RESEWERAGE SCHEME.

TENDERS are invited from contractors experienced in large sewerage schemes, for the CONSTRUCTION of some THREE MILES of SEWERS in sizes from 57in. dia., together with miscellaneous associated works, Stormwater Overflows, etc., and the Construction of a Sewage Pumping Station and Rising Main.

The work will be executed partially in open trench at depths of up to 10ft., and partially in heading.

Tenders are to reach me, in the official envelope, not later than Noon on the 20th SEPTEMBER, 1961, and applications for Contract documents should be made to the Engineer and Surveyor, Council Offices, Urmston, Manchester, not later than 24th AUGUST, 1961, accompanied by a deposit of £5 5s. which will ultimately be refunded if a bona-fide Tender is received by the due date and not subsequently withdrawn.

It is emphasised that Tenders will only be considered from firms experienced in this type of work, and a list of similar works recently executed should be submitted with the Tender.

L. WATKINS,

Clerk of the Council.

Council Offices,

Urmston,

August, 1961.

CHIGWELL URBAN DISTRICT COUNCIL.

EXTENSIONS TO LUXBOROUGH SEWAGE WORKS.

SECONDARY DIGESTION TANKS AND SLUDGE DRYING BEDS.

C23 CONTRACT 13.

The Council invites TENDERS for the REMOVAL of approximately 8,500 cu. yd. of SLUDGE, and the CONSTRUCTION of EARTHANKED SECONDARY DIGESTION TANKS, SLUDGE DRYING BEDS, and ALTERATIONS to EXISTING SLUDGE DRYING BEDS, together with Sundry Pipework, Chambers, and ancillary Work.

Particulars and Specification can be obtained, and Plans inspected at, the offices of the Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, West Street, Epsom, on and from Monday, 28th August, until Friday, 15th September, between 10 a.m. and 4 p.m., upon deposit of a cheque for Five Guineas, made payable to the Council, which deposit will eventually be returned to each contractor who has submitted a bona-fide Tender not subsequently withdrawn. Prints of the Contract Drawings can be obtained on loan from the Consulting Engineers on payment of £1 made payable to HOWARD HUMPHREYS (SERVICES).

Tenders, on the official form, to be delivered to the undersigned, in sealed envelopes endorsed "Tender for Extensions to Luxborough Sewage Works, Secondary Digestion Tanks and Sludge Drying Beds (C23.13)," but bearing no name or other mark indicating the sender, by MONDAY, 25th September, 1961.

The Council does not bind itself to accept the lowest or any Tender.

BRYAN R. OSTLER,

Clerk of the Council.

Council Offices,

Old Station Road,

Loughton,

Essex.

DONCASTER RURAL DISTRICT COUNCIL.

CONTRACT NO. 387.

FIXED-PRICE TENDERS are invited from experienced contractors for the RECONSTRUCTION of ASKERN LAKE BRIDGE and appurtenant works, to form a YACHTING AND PADDLING POOL.

Tender documents may be obtained from, and Drawings inspected by appointment with the Surveyor at the undermentioned address.

Tenders, in a plain sealed envelope endorsed "Askern Lake Bridge—Contract No. 387," must be returned to the undersigned by not later than Noon on WEDNESDAY, 30th August, 1961.

B. MELDRUM,

Clerk to the Council.

Council Offices,

Nether Hall,

Doncaster.

9th August, 1961.

CONTRACTS

BEDFORDSHIRE COUNTY COUNCIL.

A.505, CHURCH STREET, DUNSTABLE.

TENDERS are invited for the WIDENING and REALIGNMENT of the ABOVE ROAD over a length of 730yd.

The work consists of Site Clearance, Granular Sub-base, Lean-Mix Base, Asphalt Surfacing, considerable Diversion of Public Utility Services, Drainage Works, and the Lowering of the Carriageway under a reconstructed railway bridge. Tendering contractors should have had considerable experience in this type of work.

Copies of the Conditions of Contract, Specification and Bill of Quantities can be obtained from the County Surveyor, Dents Road, Bedford, on payment of Two Pounds deposit which will be refunded on receipt of a bona-fide Tender or return of the documents before the closing date. The Drawings may be examined at the above Office by appointment during working hours.

Tenders must be returned to me by FRIDAY, 15th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender which may be received.

GEORGE BREWIS,

Clerk of the County Council.

Shire Hall,

Bedford.

August, 1961.

BEDFORDSHIRE COUNTY COUNCIL.

AMPHILL TO TODDINGTON ROAD, A.5120.

M.1 JUNCTION TO CRANFORD BRIDGE.

TENDERS are invited for the WIDENING and REALIGNMENT of the ABOVE ROAD over a length of 1,000yd.

The works consist of Earthworks, Concrete Haunching and Channelling, Granular Foundations, Tarmac and Asphalt Surfacing and Drainage. The tarmac work will include trial materials.

Copies of the Conditions of Contract, Specification and Bill of Quantities can be obtained from the County Surveyor, Dents Road, Bedford, on payment of Two Pounds deposit which will be refunded on receipt of a bona-fide Tender or return of the documents before the closing date. The Drawings may be examined at the above Office by appointment during working hours.

Tenders must be returned to me by FRIDAY, 15th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender which may be received.

GEORGE BREWIS,

Clerk of the County Council.

Shire Hall,

Bedford.

August, 1961.

COUNTY BOROUGH OF ROTHERHAM.

ALDWARKE SEWAGE WORKS RECONSTRUCTION—CONTRACT 9.

TENDERS are invited from experienced public works contractors for the CONSTRUCTION of FOUR STORM WATER TANKS, a Detritor and Grit Elevator in Reinforced Concrete, together with new Concrete Roads, and other ancillary works.

Specifications and Bills of Quantities may be obtained from E. J. MANSON, B.Eng., A.M.I.C.E., Borough Engineer, Municipal Offices, Howard Street, Rotherham, on payment of a deposit of £5 5s. (Five Guineas) which will be refunded on receipt of a bona-fide Tender and not subsequently withdrawn.

Tenders, together with fully priced Bills of Quantities in plain sealed envelopes endorsed "Storm Tanks—Aldwarke Sewage Works," must be delivered to the undersigned not later than 10 a.m., 18th SEPTEMBER, 1961.

The Council does not bind itself to accept the lowest or any Tender.

JOHN S. WALL,

Town Clerk.

Municipal Offices,

Howard Street,

Rotherham.

10th August, 1961.

BOROUGH OF BASINGSTOKE.

GROUP "A" STREET LIGHTING.

TENDERS are invited for the INSTALLATION of GROUP "A" FLUORESCENT STREET LIGHTS for approx. 1,000yd. of TRUNK ROAD (A.339).

Copies of the Conditions of Contract, Specification and Bills of Quantities may be obtained from the Borough Surveyor, Municipal Buildings, London Road, Basingstoke, Hampshire, on payment of a Two Guinea deposit which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn. Tenders must be delivered to the undersigned, in the official envelope provided, which must bear no name or mark identifying the sender, not later than Noon on 7th SEPTEMBER, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. PURVIS,

Town Clerk.

Municipal Buildings,

London Road,

Basingstoke.

ROTHWELL (YORKS.) URBAN DISTRICT COUNCIL.

PROPOSED SODIUM LIGHTING—GROUPS "A" AND "B."

SCHEME 1—140-W SODIUM DISCHARGE STREET LIGHTING UNITS (9).

SCHEME 2—45 60-W SODIUM DISCHARGE STREET LIGHTING UNITS (229) WITH SIDE ENTRY LANTERNS.

SCHEME 3—45-W SODIUM DISCHARGE STREET LIGHTING UNITS (232) WITH POST TOP LANTERNS.

TENDERS are invited for the FOLLOWING:

- (a) Provision and Erection of all items of Equipment in connection with the above Schemes;
- (b) Supply and Delivery only of the Columns, Lanterns, Electrical Gear, etc.; or
- (c) Erection only of the above Equipment.

All Schemes to have Reinforced or Prestressed Concrete Columns.

Plans may be seen, and Conditions of Contract, Specification, Bill of Quantities obtained upon application to the Engineer and Surveyor on deposit of Two Guineas which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be enclosed in a plain envelope endorsed "Street Lighting," returned not later than 9 a.m. on FRIDAY, the 8th September, 1961, to the undersigned.

ALLEN T. S. ROBERTSON,

Clerk of the Council.

Civic Buildings,

Rothwell,

Near Leeds.

14th August, 1961.

CONTRACTS

ROYAL COUNTY OF BERKSHIRE.

MAIDENHEAD BY-PASS, M.4.

SURFACE WATER MAIN.

TENDERS are invited for the CONSTRUCTION of a SURFACE WATER DRAIN along the verge of the Maidenhead By-pass, M.4.

The works comprise the Excavation for, Provision and Laying of varying sizes of Pipes from 18in. dia. to 33in. dia., together with the Construction of Manholes and other appurtenant works, in all, a total length of approx. 1,875yd.

The Drawings may be inspected at, and Conditions of Contract, Specification, Bills of Quantities and Form of Tender obtained from, the Office of the COUNTY SURVEYOR, Shire Hall, Reading, on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders should be returned in the envelope provided, not later than 12 Noon on FRIDAY, 1st September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

MONTGOMERYSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

TRUNK ROAD, A.458—BUTTINGTON BRIDGE.

TENDERS are invited for PROTECTIVE WORK to BUTTINGTON BRIDGE, situated on the River Sever, near Welshpool, and comprising a length of piling approx. 87ft., and ancillary works.

Tender documents and Drawings may be obtained from the County Surveyor, County Offices, Welshpool, on payment of a deposit of £2 which would be refunded on receipt of a bona-fide Tender not subsequently withdrawn, together with Contract Drawings and documents.

Tenders must be delivered to the undersigned not later than Noon on TUESDAY, 5th September, 1961, in an envelope endorsed "Buttington Bridge," and bearing no mark or indication of the sender.

The Council does not bind itself to accept the lowest or any Tender.

P. E. WHITE,

Clerk of the County Council.

County Offices,

Welshpool.

16th August, 1961.

COUNTY BOROUGH OF NORTHAMPTON.

TENDERS, returnable by 10 a.m. on the 11th SEPTEMBER, 1961, are invited for the LAYING of approx. 860 lin. yd. of 15/24in. dia. Precast Concrete Pipes, and ancillary works.

Contractors wishing to tender should apply to the Borough Engineer, Guildhall, Northampton, enclosing crossed cheque for £2 2s., returnable on receipt of a bona-fide Tender.

C. E. VIVIAN ROWE,

Town Clerk.

BOROUGH OF WREXHAM.

RHOSDDU BURIAL GROUND—CONVERSION INTO GARDENS.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION OF PATHS, PAVING, WALLING and PREPARATION OF GROUNDS.

Drawings and General Conditions of Contract may be inspected at, and Specification, Bills of Quantities and Forms of Tender obtained from the Borough Engineer and Surveyor, Guildhall, Wrexham, on payment of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender.

Tenders must be sealed and delivered to the undersigned by 12 Noon, MONDAY, 11th September, 1961.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,

Town Clerk.

Guildhall,

Wrexham.

August, 1961.

CITY OF WORCESTER.

REA WAY, DINES GREEN HOUSING ESTATE—SITE COMPLETION WORKS.

FIXED-RATE TENDERS are invited for the ABOVE WORKS, which comprise the Surfacing of approx. 1,800 sq. yd. of existing Stone Pitched Roads with Hot Rolled Asphalt, the Laying of 1,100 sq. yd. of Flag Paving, and 3,000 sq. yd. of Turf, together with other incidental works.

Documents obtainable from the City Engineer and Surveyor, 22 Bridge Street, Worcester, upon payment of a Two Guinea deposit which will be returned upon receipt of a bona-fide Tender.

Tenders, in the envelope provided, to be posted to reach the undersigned not later than THURSDAY, 14th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

BERTRAM WEBSTER,

Town Clerk.

Guildhall,

Worcester.

August, 1961.

STOCKPORT CORPORATION WATERWORKS.

GOYT VALLEY SUPPLY.

CONSTRUCTION OF CONTROL HOUSE AND WELLHEAD CHAMBERS.

CONTRACT "N."

Stockport Corporation Waterworks Committee invite TENDERS for the CONSTRUCTION of a CONTROL HOUSE to house the Circuit Breaker, Starters and Metering Equipment required in connection with their Goyt Valley Boreholes, and of two Reinforced Concrete Wellhead Chambers situated at the top of the boreholes.

Drawings, Specification and Tender Form may be obtained on application to G. H. HILL AND SONS (MANCHESTER), Civil Engineers, 51 Mosley Street, Manchester, 2. Applications should be accompanied by deposit of a cheque for Five Guineas made payable to G. H. Hill and Sons (Manchester). The deposit will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Drawings and documents may be inspected at the Office of the Water Engineer and Manager, Town Hall, Stockport, and at the Offices of G. H. Hill and Sons, 51 Mosley Street, Manchester, 2.

Sealed Tenders, endorsed "Goyt Valley Supply—Contract 'N.'" and addressed to the CHAIRMAN OF THE WATERWORKS COMMITTEE, Town Hall, Stockport, should be delivered by Noon, 5th September, 1961.

The Committee or the Corporation do not bind themselves to accept the lowest or any Tender.

CONTRACTS

FLINTSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

HIGHWAYS ENGINEERING PLANT AND EQUIPMENT.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING ITEMS:—

- (1) Mechanical Road Sweeper.
- (2) Petrol/Diesel Trucks, 30cwt. and 15cwt.
- (3) 7/10cwt. Petrol Van.
- (4) Land-Rover or similar Vehicle.
- (5) Tractors, Diesel (Wheeled).
- (6) Attachments for Tractors, viz:—
 - (a) Forward Loading Shovels.
 - (b) Graders.
 - (c) Mowing Machines.
- (7) Calldozer.
- (8) Diesel Roller, 8-ton.
- (9) Snowploughs.
- (10) Trailer Gritting Machines.
- (11) Tar Rollers.
- (12) Compressor Tools.
- (13) Automatic Traffic Signals (Portable).
- (14) Toolbox Trailers.
- (15) Steel Roadframes.
- (16) 500-gallon Diesel Storage Tanks, with Pumps.

Forms of Tender can be obtained from the County Surveyor, Llwynegryn, Mold, Closing date, MONDAY, 18th September, 1961.

W. HUGH JONES,

Clerk of the County Council.

County Buildings,

Mold.

BOROUGH OF ENFIELD.

SCHEME 1—ALDERSBROOK AVENUE OPEN SPACE. SCHEME 2—ENFIELD PLAYING FIELDS.

The Council invites TENDERS for the LAYING OUT of the ABOVE AREAS of OPEN SPACE.

Scheme 1 consists of the Reconstruction of about 2.5 Acres of Allotment Land to a Grassed Open Space, Footways, a Children's Playground and certain other ancillary works. Scheme 2 involves Site Clearance of about 32 Acres of Land and the Construction of Playing Fields.

The Specifications, Bills of Quantities, Conditions of Contract and Form of Tender for one or both Contracts may be obtained from H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, upon payment of a £2 deposit, returnable upon receipt of a bona-fide Tender and/or the return of all the documents.

The above documents and Plans can be inspected at the Borough Engineer's office without charge during office hours (excluding Saturdays).

Tenders must reach the undersigned not later than Noon on MONDAY, 11th September, 1961, and no Tender will be received except in the official Tender envelope, sealed and endorsed "Tender for Laying out of Aldersbrook Avenue Open Space," or "Tender for Layout of Playing Fields." The Tender envelope shall not bear any mark or name indicating the sender. Tenders should note that the Council does not bind itself to accept the lowest or any Tender.

C. E. C. R. PLATTEN,

Town Clerk.

Civic Centre,

Enfield.

August, 1961.

BOROUGH OF BRIDGWATER.

WIDENING WEMBODN ROAD, B.3339.

TENDERS are invited for the SETTING BACK of BRICK GARDEN WALLS, MASS CONCRETE RETAINING WALLS, REBUILDING OF DOUBLE GARAGE, SLAB PAVING and KERBING, FELLING TREES and ROAD CONSTRUCTION.

Full particulars and documents may be obtained from the Borough Engineer, Town Hall, Bridgwater, on payment of a £2 2s. deposit. Closing date for receipt of Tenders, 10 a.m., MONDAY, 11th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

H. A. CLIDERO,

Town Clerk.

MALVERN URBAN DISTRICT COUNCIL.

TENDERS are invited for the FOLLOWING:

- (1) Shuttelford Sewer Scheme—The works comprise the Construction of approx. 5,780 lin. yd. of 18in. to 6in. Sewers in Concrete Tube, Asbestos-cement Tube and Iron Pipe, together with Precast Concrete Section and Brick Manholes, and ancillary works.
- (2) Foul Sewer, Worcester Road—The works comprise the Construction of approx. 360 lin. yd. of 6in. dia. Sewer in Concrete Tube together with Precast Concrete Section Manholes, and ancillary works.

Drawings may be inspected at, and Conditions of Contract, Specification and Bill of Quantities and Form of Tender may be obtained from, the Office of the Surveyor and Water Engineer, The Council House, Malvern, on payment of a deposit of Five Guineas (cheques to be made payable to Malvern Urban District Council), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tender, in envelope provided, must be received by the undersigned not later than 10 a.m. on FRIDAY, 15th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

J. BULMAN,

Clerk of the Council.

The Council House,

Malvern.

14th August, 1961.

WEDNESFIELD URBAN DISTRICT COUNCIL.

TO PUBLIC WORKS CONTRACTORS.

TENDERS on a Fixed-price Basis are invited for WORKS on 14 DISTRICT ROADS, in conjunction with the Council's Maintenance Programme 1961-62.

The works comprise 1,500 lin. yd. of Kerbs and Foundations, and 4,500 sq. yd. of Tarmacadam to Carriageways, together with ancillary works.

Copies of the Specification, Bills of Quantities and Forms of Tender may be obtained on payment of £1 1s. by cheque and made out to the Wednesfield U.D.C., from T. A. PEACOCK, M.I.Mun.E.Cert.B.I., Engineer and Surveyor, 29 Bolton Road, Wednesfield. The deposit will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, enclosed in the envelope provided for this purpose, must be sealed and delivered to the Clerk of the Council, County Offices, Alfred Squire Road, Wednesfield, by not later than 12 Noon on MONDAY, 4th September, 1961. The envelope must bear no mark or indication of the sender, and Tenders received after the stated time will be rejected.

The Council do not bind themselves to accept the lowest or any Tender.

J. HENWOOD-JONES,

Clerk of the Council.

Council Offices,

Alfred Squire Road,

Wednesfield.

CONTRACTS

COUNTY BOROUGH OF CROYDON.

MULTI-STORY CAR PARK.

TENDERS are invited for the CONSTRUCTION in FAIRFIELD of a REINFORCED CONCRETE FIVE-STORY CAR PARK for approximately 650 Cars. Alternative designs will be considered. Tender documents may be obtained from the Borough Engineer, Town Hall, Croydon, Surrey. Closing date for receipt of Tenders is 8th NOVEMBER, 1961.

E. TABERNER,

Town Clerk.

BOROUGH OF SWINTON & PENDLEBURY.

CLIFTON DRAINAGE.

CONTRACT NO. 4.

The CORPORATION invites TENDERS from well-experienced contractors for the EXECUTION of the ABOVE CONTRACT, embracing the Construction of approx. 1,100 lin. yd. of Spun-iron, Cast-iron and Steel Sewers, varying in diameter from 9in. to 30in., with Manholes, etc., and appurtenant works.

Contractors desirous of tendering may obtain copies of the General Conditions, Specification, Bill of Quantities and Form of Tender from the Offices of the Consulting Engineers, MESSRS. G. B. KERSHAW AND KAUFMAN, Chandos House, Palmer Street, Westminster, S.W.1, upon deposit of Five Guineas (cheque made payable to Swinton and Pendlebury Corporation) which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected at the Offices of the Consulting Engineers or at the Office of the Borough Surveyor, Town Hall, Swinton, Lancs., any day during ordinary office hours.

Tenders, endorsed "Clifton Drainage—Contract No. 4," in plain sealed envelopes not bearing any name or mark indicating the sender, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, the 20th day of September, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

J. W. BLOMELEY,

Town Clerk.

Town Hall,

Swinton, Lancs.

23rd August, 1961.

BOROUGH OF LYTHAM ST. ANNES.

STREET LIGHTING.

TENDERS are invited for a SCHEME of STREET LIGHTING IMPROVEMENT which includes the Supply and Erection of 9 New Concrete Columns, 85 New Cast-iron Columns, the Repositioning of 25 Cast-iron Columns, and the Renewal of 42 Cast-iron Brackets on existing columns.

The Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Surveyor, Town Hall, Lytham St. Annes, whose Office the General Conditions of Contract can be inspected.

Tenders, in plain sealed envelopes endorsed "Street Lighting," must be delivered to the undersigned not later than 10 a.m. on MONDAY, 25th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. A. CORK,

Town Clerk.

Town Hall,

Lytham St. Annes.

BRIERLEY HILL URBAN DISTRICT COUNCIL.

LEVELLING LAND OFF CORBYNS HALL ROAD.

TENDERS are invited for the LEVELLING of SCRUBLAND, involving 40,000 cu. yd. of Excavation on adjoining CORBYNS HALL ROAD, Pensnett.

Further details and Drawings may be inspected, and Form of Tender, Specification and Bill of Quantities may be obtained from the office of the Engineer and Surveyor, Civic Buildings, Briery Hill, Staffs., upon payment of a deposit of Two Guineas, which will be returned on submission of a bona-fide Tender not subsequently withdrawn.

Tenders, with Fully Priced Bill of Quantities, enclosed in plain sealed envelopes endorsed "Leveling, Corbyns Hall Road," are to be returned to the Clerk of the Council, Civic Buildings, Briery Hill, Staffs., not later than Noon on THURSDAY, 14th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

HERBERT HEX,

Clerk of the Council.

DULVERTON RURAL DISTRICT COUNCIL.

RE-LAYING OF WATER MAIN AT SKILGATE.

FIXED-PRICE TENDERS are invited for the LAYING of approximately 550yd. of 3in. ASBESTOS WATER MAIN, with Works incidental thereto, in the Village of Skilgate.

Forms of Tender, Specifications, etc., may be obtained from the office of the Council's Public Health Inspector, Exmoor House, Dulverton, on payment of a deposit of One Guinea, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender—Skilgate Water," must be received by the undersigned not later than First Post on TUESDAY, 12th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. W. HALSE,

Clerk of the Council.

The Offices,

High Street,

Dulverton,

Somerset.

14th August, 1961.

CALNE AND CHIPPENHAM RURAL DISTRICT COUNCIL.

NOTTON AND PICKWICK WATER MAINS.

TENDERS are invited for LAYING approximately 1,400yd. of 6in. and 5in. SPUN-IRON WATER MAIN in the Parishes of LACOCK and CORSHAM.

Copies of the Specification, Bill of Quantities, Form of Tender and Plans can be obtained from the Engineer to the Council, at the address below, against a deposit of Two Guineas, refundable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, sealed in the envelope provided, are to be delivered to the undersigned not later than Noon, 16th SEPTEMBER, 1961.

The Council does not bind itself to accept the lowest or any Tender.

H. F. HALES,

Clerk of the Council.

Bewley House,

Marshfield Road,

Chippenham.

CONTRACTS

GOVERNMENT OF MALTA.
SEWERAGE—PITKALI EXTENSION.

TENDERS are invited by the Maltese Government for the CONSTRUCTION of a STORMWATER OVERFLOW CHAMBER and the Laying of approx. 1 mile of 24in. and 9in. dia. Asbestos-cement Sewers, about 500yd. of the former being in gallery, between Marsa Cross and Pitkali in Malta.

Tender documents and Drawings may be obtained at the Office of the Accountant-General, The Palace, Valletta, Malta, or at the Offices of the Engineers, MESSRS. BINNIE, DEACON AND GOURLEY, Artillery House, Artillery Row, Westminster, London, S.W.1, on payment of Two Pounds for each copy of the documents, on or after 28th August, 1961.

Sealed Tenders (in duplicate), in a plain envelope endorsed "Tender for Pitkali Sewer Extension," shall be delivered at the Office of the Accountant-General, The Palace, Valletta, Malta, not later than 10 a.m. on MONDAY, 9th October, 1961.

The Maltese Government do not undertake to accept the lowest or any Tender, and will not defray any expenses incurred by the contractor in tendering.

THE ACCOUNTANT-GENERAL.

Malta.

ADMINISTRATIVE COUNTY OF
LEICESTER.

Builders and contractors desirous of being considered for inclusion in a selected list of contractors to TENDER on a Firm-price Basis for ERECTION of OLD PEOPLE'S HOME, Market Harborough, to submit names to COUNTY ARCHITECT, 123 London Road, Leicester, by TUESDAY, 5th September, 1961.

Bills of Quantities available on TUESDAY, 19th September.

Tenders to be returned not later than 12 Noon on WEDNESDAY, 18th October, 1961.

LONDON COUNTY COUNCIL.
CHIEF ENGINEER'S DEPARTMENT.CONTRACT FOR GENERAL WORKS AND REPAIRS,
1962/65.

The London County Council proposes to invite TENDERS for the EXECUTION, for a period of three years commencing 1st April, 1962, of GENERAL WORKS AND REPAIRS (including Jobbing work) required in connection with the Council's Main Drainage System (including its extensions outside the County), Thames Flood Prevention Works, Street Improvements, Bridges, Embankments, Pipe Subways, Tunnels, Woolwich Ferry (excluding ferry boats), River Piers, and other work.

The average annual value of work carried out under the Contract during the last three years was £330,000, of which approx. 80 per cent. was in connection with the Main Drainage Service.

Contractors who desire to be considered for inclusion in the list of firms to be invited to tender should apply to the CHIEF ENGINEER, The County Hall, Westminster Bridge, S.E.1, for Form C.E./J.W.2, on which they will be required to give evidence as to their competence and resources for the efficient execution of the Contract.

For the guidance of prospective tenderers, a copy of a similar contract may be inspected between the hours of 10 a.m. and 5 p.m. on application to Room 450D, The County Hall, S.E.1.

Consideration will be given only to applications submitted on Form C.E./J.W.2 and received by not later than 12 Noon on FRIDAY, 29th September, 1961.

CITY OF YORK.
HOUSING COMMITTEE.

WINDSOR GARTH REDEVELOPMENT—STAGE II.

TENDERS are invited for the CONSTRUCTION of approximately 4,000 sq. yd. of 6in. thick REINFORCED CONCRETE CARPENTRY, 2,800 sq. yd. of 4in. thick CONCRETE GARAGE FORECOURTS, 5,000 sq. yd. of TARMACADAM FOOTPATHS, and ancillary Works, including Grassed Areas, Surface Water and Foul Drainage, and Resurfacing of Existing Carriageways.

The General Conditions of Contract and Drawings may be inspected at, and the Specification, Bill of Quantities and Form of Tender obtained from, the office of the undersigned on deposit of £2 (cheques to be crossed and made payable to York Corporation), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

The completed Form of Tender shall be delivered to the undersigned in the official envelope provided endorsed "Windsor Garth Redevelopment—Stage II," not later than Noon on MONDAY, 11th September, 1961.

The lowest or any Tender will not necessarily be accepted.

CHAS. J. MINTER,
City Engineer, Surveyor
and Planning Officer.

7 St. Leonard's Place,
York.

KINGSWOOD URBAN DISTRICT
COUNCIL.

ADVANCE ROADS AND SEWERS.

TENDERS are invited for SITE CLEARANCE and the CONSTRUCTION of ADVANCE ROADWORKS and SEWERS on the Council's Site for approx. 200 Dwellings at TENNIS COURT ROAD, Kingswood.

Contract documents may be obtained from the Council's Engineer and Surveyor on a deposit of £10 (by cheque), returnable on receipt of a bona-fide Tender, and the Drawings may be inspected at his Office.

Sealed Tenders, in the envelope provided, endorsed "Roads and Sewers—Tennis Court Road Site," must be returned to the undersigned not later than Noon on TUESDAY, 12th September, 1961.

The lowest or any Tender will not necessarily be accepted.

I. H. DEARNLEY,
Clerk of the Council.

Council Offices,
Kingswood,
Bristol.

HEREFORDSHIRE HOSPITAL
MANAGEMENT COMMITTEE.

TENDERS invited for SUPPLYING and INSTALLING RADIO RELAY SYSTEM at BURGHILL HOSPITAL, Hereford.

Specification, Conditions of Contract, Tender Form and Plan can be obtained from the Superintendent Engineer, Burghill Hospital, Hereford.

Tenders to be returned in the addressed envelope provided, not later than 13th SEPTEMBER, 1961.

A. D. EDMUNDS,
Group Secretary.

Victoria House,
Eign Street,
Hereford.

CONTRACTS

COUNTY BOROUGH OF WALLASEY.
MOSSLANDS DRIVE—ROADWORKS.

TENDERS are invited by 10 a.m. on WEDNESDAY, 20th September, for the CONSTRUCTION of a CONNECTING LINK ROAD, approximately 222yd. long, to JOIN TWO EXISTING SECTIONS of MOSSLANDS DRIVE, Wallasey, and all other incidental Works.

Forms of Tender, together with copies of Conditions Specifications and Bill of Quantities, obtainable from the Borough Engineer and Surveyor, Town Hall, Wallasey, on payment of a deposit of £2, which will be returnable on receipt of a bona-fide Tender.

A. G. HARRISON,
Town Clerk.

BOROUGH OF BRIDGWATER.

SURFACE DRESSING OF ROADS, 1961/62.

TENDERS are invited for HOT TAR SURFACE DRESSING of approx. 31,800 sq. yd. of CARRIAGEWAY.

Full particulars and documents may be obtained from the Borough Engineer, Town Hall, Bridgwater, on payment of a £2 2s. deposit.

Closing date for receipt of Tenders: 10 a.m. MONDAY, 11th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

H. A. CLIDERO,
Town Clerk.

Town Hall,
Bridgwater.

16th August, 1961.

BOROUGH OF THETFORD.

GREEN LANE IMPROVEMENT.

TENDERS are invited for the IMPROVEMENT of GREEN LANE, Thetford, comprising the LAYING of approximately 800 lin. yd. of PRECAST CONCRETE KERBING, 600 sq. yd. of PITCHED STONE FOUNDATION, 2,635 sq. yd. of TARMACADAM CARRIAGEWAY, 1,135 sq. yd. of TARMACADAM and FINE COLD ASPHALT FOOTWAY, and SURFACE WATER DRAINAGE.

Tender documents may be obtained from MR. W. R. F. JENNINGS, M.I.Mun., Borough Engineer and Surveyor, Municipal Offices, Thetford.

Tenders, in plain sealed envelopes endorsed "Green Lane Improvement," must be delivered to the undersigned not later than 12 Noon on TUESDAY, 19th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

W. ELLIS CLARKE,
Town Clerk.

Municipal Offices,
Thetford.

14th August, 1961.

CITY OF RIPON.
STREET LIGHTING, 1961-62.

TENDERS are invited for the SUPPLY and ERECTION, or for the SUPPLY ONLY, of 24 Class A Fluorescent Wall-mounted and Steel Column-mounted LIGHTING UNITS, and 100 Class B CONCRETE COLUMN UNITS.

Detailed particulars and Form of Tender may be obtained from the City Engineer, Low Saint Agnesgate, Ripon, Yorks, on payment of a deposit of £2 2s., refundable on receipt of a bona-fide Tender.

Tenders, on the official forms provided, in a plain sealed envelope endorsed "Street Lighting," should reach the undersigned not later than 12 Noon, MONDAY, 11th September, 1961.

J. A. BERRY,
Town Clerk.

WIGAN RURAL DISTRICT COUNCIL.

PARBOLD AND DISTRICT SEWERAGE SCHEME.

CONTRACT NO. 3.

TENDERS are invited, on a FIXED-PRICE BASIS, from experienced contractors for the FOLLOWING WORKS:

(a) Approximately Eight Miles of Sewers of varying diameter between 6in. and 18in., together with Manholes and appurtenant Works.

(b) Two Small Pumping Stations and Pumping Mains.

(c) House Drains and Inspection Chambers.

Drawings may be inspected and the Contract documents obtained at the offices of the Engineers, MESSRS. CHARLES J. LOMAX AND SON, 68 Barton Arcade, Deansgate, Manchester, 3, on payment of a deposit of Five Guineas (cheques only, made payable to the Wigan Rural District Council), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, endorsed "Tender for Parbold Sewerage Scheme," must be returned to the undersigned not later than Noon on MONDAY, 2nd October, 1961.

The lowest or any Tender will not necessarily be accepted.

ROBERT GASKELL,
Clerk of the Council.

Municipal Offices,
10 Bridgeman Terrace,
Wigan,
Lancs.

14th August, 1961.

ELLESMERE RURAL DISTRICT COUNCIL.

CONTRACT NO. 4.

WATER SUPPLY TO SOUTHERN AREA.

TENDERS are invited for the CONSTRUCTION of about 22 miles of ASBESTOS-CEMENT WATER MAINS, varying in diameter from 6in. to 24in., and incidental works, in accordance with the Drawings, Specification and Bills of Quantities prepared by the Engineers, A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2.

The Drawings may be seen at, and the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from, the Offices of the undersigned or of the Engineers, on or after the 30th August, 1961, on payment of a deposit of Five Guineas which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied and in the endorsed envelope provided, are to be delivered to me at my Office not later than Noon on the 29th SEPTEMBER, 1961.

The Council does not undertake to accept the lowest or any Tender.

E. G. D. HEALEY,
Clerk of the Ellesmere Rural District Council.

Council Offices,
Ellesmere,
Shropshire.

16th August, 1961.

CONTRACTS

ROYAL BOROUGH OF KINGSTON-UPON-
THAMES.

ACRE ROAD REDEVELOPMENT.

BLOCK "A" FOUR-STORY 17 TWO-BEDROOM
MAISONNETTES.

The CORPORATION propose shortly to invite TENDERS from a selected list of contractors for the ABOVE WORK, which forms the First Stage of a Redevelopment Scheme that will include Multi-storey Residential Blocks, Service Roads, Parking Bays and/or Garages, Landscaping, etc.

Contractors who have the necessary organisation, plant and labour force to carry out development of this nature, and who would be prepared to tender for subsequent development during the erection of Block "A" are requested to make application on or before 31st AUGUST, 1961.

Tenders will be selected from those who apply, and tendering will be on a Fixed-price Basis.

Further details of the redevelopment generally can be obtained upon written application to the Borough Surveyor.

The Corporation do not bind themselves to accept the lowest or any Tender.

L. V. POWELL,
Town Clerk.

Guildhall,
Kingston-upon-Thames.

BOROUGH OF ELLESMERE PORT.

CONTRACT NO. 285.

WORKS OF IMPROVEMENT AND REPAIR TO
NOS. 7, 9, 11 AND 13 OAK STREET, and 5, 7 AND 9
UPPER MERSEY STREET, ELLESMERE PORT.

TENDERS are invited for WORKS OF IMPROVEMENT AND REPAIR to Nos. 7, 9, 11 and 13 Oak Street, and 5, 7 and 9 Upper Mersey Street, Ellesmere Port, including all necessary ancillary works.

Contract documents are obtainable from the Chief Public Health Inspector, Municipal Offices, Ellesmere Port.

Sealed Tenders, in the plain official envelope provided, must reach me by not later than 5 p.m. on THURSDAY, the 7th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE,
Town Clerk.

Municipal Offices,
Ellesmere Port,
Cheshire.

BOROUGH OF ELLESMERE PORT.

DEMOLITION OF WHITE HOUSE BUILDINGS,
WHITBY ROAD, ELLESMERE PORT.

TENDERS are invited for the DEMOLITION of the WHITE HOUSE BUILDINGS, WHITBY ROAD, Ellesmere Port.

Contract documents now obtainable from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port.

Sealed Tenders, in the plain envelope provided, must reach me by post by not later than 5 p.m. on MONDAY, the 11th September, 1961. The Council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE,
Town Clerk.

Municipal Offices,
Ellesmere Port.

BOROUGH OF MAIDSTONE.

BRUNSWICK STREET CAR PARK.

TENDERS are invited for the CONSTRUCTION of the ABOVE.

All documents may be obtained from the Borough Engineer, Palace Avenue, Maidstone.

Tenders to be received by me by 10 a.m. on 11th SEPTEMBER.

T. SCHOLAS,
Town Clerk.

HATFIELD RURAL DISTRICT COUNCIL.

(AMENDED ADVERTISEMENT.)

HIGHWAYS ACT, 1959. PRIVATE STREET WORKS.

FIXED-PRICE TENDERS are invited for the FOLLOWING THREE CONTRACTS:

(a) King James Avenue (Cuffley)—Approx. quantities: 530 lin. yd. 9in. and 6in. dia. Concrete Sewers, 1,100 lin. yd. 5in. x 10in. P.C.C. Kerb, 2,150 lin. yd. 2in. x 6in. Concrete Edging, 4,000 sq. yd. Bitumen Macadam Surfacing, 2,160 sq. yd. Bitumen Macadam Footpaths, 3,800 sq. yd. Verges, 70 Concrete Garage Crossings, and incidental works.

(b) Delsome Parade (Welham Green)—Approx. quantities: 135yd. P.C.C. Kerbs, 150 sq. yd. Flagged Footpaths, 400 sq. yd. Bitumen Macadam and Asphalt Surfacing, and incidental works.

(c) Peplins Way (Brookmans Park)—Approx. quantities: 800 lin. yd. 5in. x 10in. P.C.C. Kerb, 2,100 sq. yd. Bitumen Macadam Surfacing, 1,200 sq. yd. Flagged Footpaths, 30 Concrete Garage Crossings, Verges, and incidental works.

Tender documents obtained from the Engineer and Surveyor, North Place, 82 Great North Road, Hatfield, on payment of £2 2s. deposit for each Contract (returnable after receipt of bona-fide Tender), where also the Drawings can be inspected during normal office hours.

Tenders for these Contracts, in the envelopes provided, to be received by the undersigned not later than 12 Noon on MONDAY, 11th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

S. F. JAGO,
Clerk of the Council.

Council Offices,
16 St. Albans Road,
Hatfield.

11th August, 1961.

EDINBURGH CORPORATION.

CASTLE TERRACE CAR PARK.

TENDERS are invited from firms experienced in large reinforced concrete works for the CONSTRUCTION of a CAR PARK for approx. 800 cars. The works consist of a Retaining Wall about 700ft. long and 30ft. high, and 25,500 sq. yd. of Decks arranged in helical ramps, together with Stores, Public Conveniences, etc.

Contract documents may be obtained from KINNEAR AND GORDON, Chartered Civil Engineers, 54 Manor Place, Edinburgh, 3, on payment of a deposit of Five Guineas which will be returned to bona-fide offerors.

Tenders must be lodged by 2nd OCTOBER, 1961.

CONTRACTS

MINISTRY OF AGRICULTURE,
FISHERIES AND FOOD.

RUTHIN DIVISIONAL OFFICE.

UNDER DRAINAGE—OPENCAST COAL SITES.

TENDERS are invited from experienced contractors for the WORKS REQUIRED on the FOLLOWING SITES:

- (i) White Mount (Bryn Gwyn), Flintshire.
- (ii) Hazelwood, Flintshire.
- (iii) Coed Talon Banks, Flintshire.
- (iv) Tan Llan, Flintshire.
- (v) Gaiachog, Flintshire.

Drawings, General Conditions, Forms of Tender, Specification and Bills of Quantities can be obtained from the Divisional Executive Officer at the address given below.

Sealed Tenders, in envelopes endorsed "Under Drainage—Opencastr Coal Sites," and bearing no indication of the sender, must reach the undersigned by 15th SEPTEMBER.

The Ministry of Agriculture, Fisheries and Food do not bind themselves to accept the lowest or any Tender.

R. H. SAYER,
Divisional Executive Officer.Station Road,
Ruthin,
Denbighshire,
North Wales.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ROADS.

TENDERS FOR TRAILER TOOL BOXES.

The County Council invite TENDERS for the SUPPLY OF SEVEN TRAILER TOOL BOXES. Conditions and Form of Tender, etc., may be obtained by application to the County Surveyor, County Buildings, Stafford.

Tenders to be submitted to reach the undersigned in official envelope provided not later than First Post on FRIDAY, 15th September, 1961.

T. H. EVANS,

Clerk of the County Council.

County Buildings,
Stafford,
August, 1961.

BOROUGH OF EVESHAM.

DEMOLITION OF PROPERTIES IN
BEWDLEY STREET AND LITTLEWORTH STREET.

TENDERS are invited from suitably qualified contractors for the DEMOLITION OF PROPERTY in Bewdley Street and Littleworth Street, Evesham. Tender documents may be obtained from J. HODSON, B.Sc., A.M.I.C.E., M.I.Mun.E., Borough Surveyor, 106 High Street, Evesham, Worcs., on payment of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be returned to the undersigned, in a plain sealed envelope, which will be supplied, not later than 12 Noon on FRIDAY, 15th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

N. F. DAVIES,

Town Clerk.

Town Clerk's Office,
Evesham,
18th August, 1961.

BOROUGH OF CHINGFORD.

MINOR ROAD IMPROVEMENTS AND RESURFACING
WORKS.

- (A) RANGERS ROAD, A.1069.
- (B) LARKSHALL ROAD, B.160.
- (C) KINGS ROAD, A.110.

TENDERS are invited for the ABOVE WORKS, which comprise the Raising and Re-laying of Kerb and Resurfacing with Bituminous Concrete and Rolled Asphalt approx. 4,700 sq. yd. of Carriageway, together with Footway, Minor Drainage, and incidental works. Form of Tender, Bills of Quantities, etc., may be obtained, and Drawings inspected, on application to the Borough Engineer, Town Hall, E.4, upon payment of a deposit of £2 2s., returnable in respect of a bona-fide Tender only.

Sealed Tenders in the envelopes provided, which shall not bear any mark indicating the sender, are to be delivered to me not later than 12 Noon on WEDNESDAY, 13th September, 1961, and Tenders received after this time will not be considered.

The Council does not bind itself to accept the lowest or any Tender.

C. G. DENNIS,

Town Clerk.

Town Hall,
Chingford, E.4.

BOROUGH OF SPENBOROUGH.

PRIVATE STREET WORKS—BROOKFIELDS ROAD,
SCHOLES.

TENDERS, on a FIXED-PRICE BASIS, are invited for CARRYING OUT ROADWORKS and SURFACE WATER DRAINAGE, comprising approximately 290 lin. yd. 5in. x 10in. P.C.C. Edging, 426 sq. yd. 2 1/2in. P.C.C. Flagging, 160 sq. yd. Tarmacadam Surfacing, together with 125 lin. yd. 6in. and 9in. Surface Water Sewer, with Connections, etc.

Copies of the Contract Drawings may be inspected at the office of the Borough Engineer, from whom copies of the Specification, Bills of Quantities, etc., may be obtained.

Tenders, in plain envelopes endorsed "Brookfields Road, Scholes," to reach me by 7th SEPTEMBER, 1961.

K. H. CHORLTON,

Town Clerk.

Spenborough Town Hall,
Cleckheaton.

MIDHURST RURAL DISTRICT COUNCIL.

TENDERS are invited on a Fixed-price Basis for the MAKING-UP OF THE ROADS, Footpaths, and ancillary works, at THE HARROWS HOUSING ESTATE, Tillington.

Plans, Specification, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor upon payment of Two Guineas deposit, refundable on receipt of a bona-fide Tender.

Tenders are to be enclosed in a plain sealed envelope endorsed "Road Works—Tillington," and to be delivered to the undersigned not later than 18th SEPTEMBER, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

D. L. BLAY,

Clerk of the Council.

Council Offices,
North Street,
Midhurst, Sussex.

CONTRACTS

STATE ELECTRICITY COMMISSION OF
VICTORIA.22-32 WILLIAM STREET,
MELBOURNE, VICTORIA, AUSTRALIA.

HAZELWOOD POWER STATION—STAGE 2.

The Commission is inviting TENDERS for the DESIGN, MANUFACTURE, SUPPLY, DELIVERY, ERECTION AND MAINTENANCE OF TWO 200-MW STEAM TURBO-GENERATORS and Associated Plant, all in accordance with Specification No. 61-62/3 and B.7 Contract Conditions.

Full particulars are available from the Agent-General for Victoria, Victoria House, Melbourne Place, The Strand, London, W.C.2, and also from the Purchasing Branch of the Commission, 22 William Street, Melbourne, Victoria, Australia.

Tenders, endorsed "Tender to Specification No. 61-62/3," are returnable direct to the COMMISSION, 22 William Street, Melbourne, Victoria, Australia, by 3 p.m. on 20th NOVEMBER, 1961.

The Commission does not bind itself to accept the lowest or any offer.

CITY OF NOTTINGHAM.
WATER DEPARTMENT.

BASFORD PUMPING STATION—NO. 3 HOUSE.

CONTRACT FOR DEMOLITION AND DISPOSAL OF
BEAM PUMPING ENGINE, BOILERS, AND OTHER
APPURTENANT WORK.

TENDERS are invited from persons and firms experienced in heavy mechanical demolitions, for BREAKING-UP AND REMOVING A BEAM PUMPING ENGINE and Boilers at BASFORD WATERWORKS, in the City of Nottingham.

General Conditions of Contract, Specification and Form of Tender may be obtained from B. W. DAVIES, Engineer and General Manager, Water Department, Castle Boulevard, Nottingham, on payment of Two Guineas which will be refunded in full on receipt of a bona-fide Tender not afterwards withdrawn, and the return of all documents.

Tenders, enclosed in an envelope endorsed "Tender for Demolition—Bassford Pumping Station," to be delivered to me at the Guildhall, Nottingham, not later than Noon on MONDAY, 18th September, 1961.

T. J. OWEN,

Town Clerk.

The Guildhall,
Nottingham.URBAN DISTRICT COUNCIL OF
WALTHAM HOLY CROSS.

HIGHWAY IMPROVEMENT SCHEME.

LEA ROAD, WALTHAM ABBEY.

FIXED-PRICE TENDERS are invited for the RECONSTRUCTION OF CARRIAGEWAY at LEA ROAD. Briefly the Work comprises the widening of approximately 674 super. yd. of Crown Area and the Raising of Channels, Kerbs, Footpath, etc., together with the Construction of 110 cu. yd. of Concrete Retaining Wall.

Form of Tender, Specification and Bills of Quantities, etc., may be obtained from the Surveyor's Department on request.

Drawings may be inspected at the Engineer's Department.

Tenders, in the envelope provided endorsed "Lea Road Improvement," should be returned to the Town Hall not later than Noon on MONDAY, 18th September, 1961.

ROLAND E. SMITH,

Clerk of the Council.

Town Hall,
Waltham Abbey.GAINSBOROUGH URBAN DISTRICT
COUNCIL.

DEMOLITION WORKS.

TENDERS are invited for the DEMOLITION and CLEARING OF A NUMBER OF BUILDINGS at the rear of the Council Offices.

Copies of the Specification, Bill of Quantities and Drawings may be obtained from the Engineer and Surveyor at the address below, and at whose Office the Form of Contract may be examined.

Tenders, in plain sealed envelopes endorsed "Tender for Demolition," must be delivered to the undersigned not later than Noon on 7th SEPTEMBER, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

H. P. DOREY,

Clerk of the Council.

Council Offices,
6 Lord Street,
Gainsborough,
August, 1961.MANCHESTER CORPORATION
WATERWORKS.

TENDERS invited for ONE DIESEL-ENGINE POWER LOADING SHOVEL of 1 cu. yd. capacity, having full-width Bucket and fitted with "prying-out" action, to be delivered in Manchester.

Schedule, Conditions, etc., and Form of Tender (returnable by 4th SEPTEMBER, 1961) obtainable from the SECRETARY, Waterworks Offices, Town Hall, Manchester, 2.

SOUTH CARDIGANSHIRE
WATER BOARD.

MAINLAYING CONTRACTS NOS. 54 AND 55.

FIXED-PRICED TENDERS are invited from experienced contractors for EITHER or BOTH of CONTRACTS NOS. 54 and 55, comprising the Excavation for, and Laying of, Spun-iron and Asbestos-cement Mains, together with ancillary works, as follows:

CONTRACT 54—FIVE EXTENSIONS.

Approx. 20,800 yd. of 3in. dia. A.C. Pipes.

Approx. 2,000 yd. of 2in. dia. A.C. Pipes.

CONTRACT 55—FIVE EXTENSIONS.

Approx. 450 yd. of 3in. dia. S.I. Pipes.

Approx. 10,300 yd. of 3in. dia. A.C. Pipes.

Approx. 5,500 yd. of 2in. dia. A.C. Pipes.

Contract documents and Drawings may be obtained from the Engineer to the Board, H. PROTHERO, M.A., M.I.C.E., 16 Albion Street, Abercrombie, upon payment of a deposit of £3 3s. which will be refunded on the receipt of a bona-fide Tender not subsequently withdrawn, and the return of the Contract documents and Drawings.

Tenders, in plain sealed envelopes, and endorsed "Tender for Mains Extensions—Contract No. 54 (or Contract No. 55, as the case may be)," must be delivered to the undersigned not later than First Post on MONDAY, 25th September, 1961.

J. E. R. CARSON,

Clerk to the South Cardiganshire
Water Board.Swyddfa'r Sir,
Marine Terrace,
Aberystwyth.

CONTRACTS

ADMINISTRATIVE COUNTY OF
LEICESTER.

Builders and contractors desirous of being considered for inclusion in a selected list of contractors to TENDER on a Firm-price Basis for ERECTION OF SCIENCE LABORATORIES at QUORN RAWLINS GRAMMAR SCHOOL, to submit names to COUNTY ARCHITECT, 123 London Road, Leicester, by TUESDAY, 15th September.

Bills of Quantities available on Friday, 15th September.

Tenders to be returned not later than 12 Noon on MONDAY, 5th October, 1961.

WEST SUSSEX COUNTY COUNCIL.

SHEET PILE WALL AT SOUTHWICK.

TENDERS are invited from contractors experienced in driving sheet piling and related works for the CONSTRUCTION OF THE ABOVE WALL, 767ft. long, in the north bank of the CANAL, Shoreham Harbour.

The Contract documents and Drawings may be inspected by appointment either at the Office of the County Engineer and Surveyor, County Hall, Chichester, or at the Offices of the Engineer, SCOTT AND WILSON, KIRKPATRICK AND PARTNERS, 47 Victoria Street, London, S.W.1. On payment of a deposit of Five Guineas to the Engineer, persons wishing to tender will be supplied with two copies of the bound Contract documents. The deposit will be returned either on the receipt of a bona-fide Tender or on return of both copies of the Contract documents complete and unmarked to the Engineer.

Tenders must be delivered to the undersigned, in the envelope provided, not later than 12 Noon on the 28th SEPTEMBER, 1961.

T. C. HAYWARD,
Clerk of the County Council.

NORTHUMBERLAND COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

SUPPLY AND LAYING OF HOT-ROLLED ASPHALT.

TENDERS are invited for the SUPPLY AND LAYING OF approximately 91,060 sq. yd. of HOT-ROLLED ASPHALT ON VARIOUS SECTIONS OF ROADS IN the County of Northumberland.

Form of Tender, Specification and Bill of Quantities may be had on application to the County Surveyor, Phoenix House, Queen Street, Newcastle upon Tyne. Applications for Tender Forms should reach the above address by 9 a.m. on the 28th AUGUST, 1961.

E. P. HARVEY,

Clerk of the County Council.

COUNTY BOROUGH OF ST. HELENS.

HIGHWAYS ACT, 1959 (CODE OF 1892).

PRIVATE STREET WORKS.

CONTRACT NO. 2171.

NEW STREET AND BROAD OAK AREAS.

TENDERS are invited for the MAKING-UP OF 10 STREETS OF PARTS OF STREETS in the ABOVE AREAS. The Works comprise Excavation, Drainage and Construction of Carriageways and Footways.

Forms of Tender, Specifications and Bill of Quantities may be obtained from the County Engineer and Surveyor, Phoenix House, Queen Street, Newcastle upon Tyne, on payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Drawings and Conditions of Contract may be inspected at this office.

Tenders, sealed in the endorsed envelope provided, are to be returned to the Town Clerk, Town Hall, St. Helens, not later than MONDAY, 18th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

M. WARD, M.I.Mun.E.,
Borough Engineer and Surveyor.Town Hall,
St. Helens.

COUNTY BOROUGH OF PRESTON.

RESURFACING OF BLACKPOOL ROAD.

TENDERS are invited for the RESURFACING OF BLACKPOOL ROAD, from Pedders Lane to Britlow Avenue, in 3in. Two-coat Hot Rolled Asphalt.

Specification and Bills of Quantities may be obtained from the Borough Engineer and Surveyor, Municipal Building, Preston, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender.

Tenders to be received by me not later than 10 a.m. MONDAY, 11th September, 1961.

W. E. E. LOCKLEY,
Town Clerk.Municipal Building,
Preston.

BOROUGH OF WORTHING.

TARRING ROAD SEWER.

TENDERS are invited for the RECONSTRUCTION of approx. 1,200 lin. yd. of EXISTING FOUL SEWER between ETON ROAD and TEVILLE PLACE.

The work includes for Excavation in trench 9ft. to 12ft. deep, Breaking-out existing Pipes and Re-laying in 18in., 21in. and 24in. dia. Concrete Tubes, Precast Concrete Manholes, Connections, and ancillary works.

Documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Worthing, on a deposit of £2 2s., refunded for a bona-fide Tender received by the undersigned on or before MONDAY, 11th September, 1961.

ERNEST G. TOWNSEND,
Town Clerk.Town Hall,
Worthing.WANDLE VALLEY JOINT SEWERAGE
BOARD.REPLACEMENT OF CLINKER MEDIA,
BACTERIA BEDS 1 and 5, SOUTH WORKS.

TENDERS from experienced contractors are invited for the REPLACEMENT OF CLINKER MEDIA in BACTERIA BEDS 1 and 5, SOUTH WORKS (approximately 8,900 cu. yd. of Media in each).

Specification, Bill of Quantities, Form of Tender and Plan may be obtained from the Engineer to the Board, Sewage Treatment Works, Byegrove Road, Colliers Wood, S.W.19.

Tenders, in the envelope provided, must be delivered to the undersigned by 12 Noon on MONDAY, 11th September, 1961.

The Board does not bind itself to accept the lowest or any Tender.

C. E. M. GUMMOW,
Deputy Clerk of the Board.Sewage Treatment Works,
Byegrove Road,
Colliers Wood,
S.W.19.
14th August, 1961

CONTRACTS

COUNTY BOROUGH OF SOUTHAMPTON.

TENDERS are invited for the SUPPLY of the FOLLOWING VEHICLES:—
One Ford 40 3-ton Lorries.
One 7cwt. Thames Van.
Tender Forms and Specifications obtainable from the BOROUGH ENGINEER AND SURVEYOR, Civic Centre, Southampton, must be returned by Noon, 16th SEPTEMBER, 1961.

COUNTY BOROUGH OF BLACKBURN.

CLEAVER STREET SEWER DIVERSION.

TENDERS are invited for the UNDERMENTIONED WORKS:
Approx. 120 lin. yd. of 60in. dia. Concrete Pipe Sewer laid at depths of up to 21ft., along with a Storm Water Overflow, and ancillary Works.
Applications for Specification and Bill of Quantities should be sent to the Borough Engineer, Town Hall, Blackburn, not later than MONDAY, the 4th September, 1961.

FRANK SQUIRES,
Town Clerk.

COUNTY BOROUGH OF BURTON-UPON-TRENT.

A.50 (PART) RECONSTRUCTION.

The CORPORATION invite TENDERS for the RECONSTRUCTION OF HORNINGLOW STREET and BRIDGE STREET, including Kerbing, Channelling, Paving, Excavation, the Provision of New Foundations, Resurfacing, and ancillary works, involving approx. 1,000 yd. of Road.
Form of Tender, Bill of Quantities, Conditions of Contract and Specification may be obtained, and the Plans may be inspected, on application to the Borough Surveyor, Town Hall, Burton-upon-Trent.
Tenders and documents, in the envelopes provided, should be delivered to the undersigned not later than 5 p.m. on FRIDAY, 22nd September, 1961.
The Corporation do not bind themselves to accept the lowest or any Tender, and persons tendering must do so at their own expense.

H. T. MEADES,
Town Clerk.

Town Hall,
Burton-upon-Trent,
16th August, 1961.

BOROUGH OF WREXHAM.

FIXED-PRICE TENDERS are invited for the FOLLOWING:

- Construction of 20 Brick Garages, Queen's Park.
 - Construction of 17 Brick Garages, Queen's Park.
 - Demolition of 11 Dwellings, Madeira Hill.
- Applications for details, Tender Forms, Bills of Quantities (a) and (b), Specification (c), enclosing deposits of £1 1s. for each Contract, refundable on receipt of bona-fide Tenders, to be made to the Borough Engineer and Surveyor, Guildhall, Wrexham. Closing date for receipt of Tenders: 12 Noon on THURSDAY, 14th September, 1961.
The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham,
16th August, 1961.

CITY OF STOKE-ON-TRENT.

RECONSTRUCTION OF LONGTON BROOKCOURSE—LONGTON HALL ROAD AND BLURTON ROAD, LONGTON.

The CORPORATION invite TENDERS from civil engineering contractors for CARRYING OUT WORKS on the ABOVE SCHEME. This work comprises: Regrading and Realigning 70 lin. yd. of existing Brookcourse; Construction of 43 lin. yd. of 10ft. 6in. x 7ft. R.C. Channel; 48 lin. yd. of 10ft. 6in. x 6ft. 6in. Concrete Box Culvert; 189 lin. yd. of 7ft. x 5ft. 6in. Concrete Box Culvert; 130 lin. yd. of 15in. dia. Concrete Pipe Sewers and Manholes; Provision and Erection of 100 lin. yd. of Wrought-iron Fencing; and incidental works.
Drawings may be inspected, and Contract documents obtained, from the City Engineer and Surveyor, Town Hall, Stoke-on-Trent, on payment of £3 which will be refunded on receipt of a bona-fide Tender.
The Tender and priced Bill of Quantities (in the separate envelopes provided) must be delivered to the undersigned by 12 Noon on WEDNESDAY, 13th September, 1961.

HARRY TAYLOR,
Town Clerk.

CITY OF STOKE-ON-TRENT.

FOXLEY LANE HOUSING SITE, MILTON.

PRELIMINARY STREET WORKS AND SEWERS.

The CORPORATION invite TENDERS from civil engineering contractors for CARRYING OUT WORKS on the ABOVE HOUSING ESTATE, area approx. 3.25 acres, comprising the Construction of Preliminary Street Works, Sewers, and incidental works.
Drawings and Conditions of Contract may be seen, and Specification and Bills of Quantities obtained, from the City Engineer and Surveyor, Town Hall, Stoke-on-Trent, on payment of £2 deposit which will be returned on receipt of a bona-fide Tender.
Tenders and priced Bills of Quantities (in the separate envelopes provided) must be delivered to the undersigned by 12 Noon on WEDNESDAY, 6th September, 1961.

HARRY TAYLOR,
Town Clerk.

CITY OF STOKE-ON-TRENT.

WESTON ROAD (A.520), MEIR.

IMPROVEMENT FROM UTTOXETER ROAD TO CORNELIOUS STREET.

TENDERS are invited for WORK on the ABOVE ROAD IMPROVEMENT SCHEME, consisting of the Widening, Reconstruction and Surfacing of the Carriageway and Footways in Bitumen Macadam, Fine Cold Asphalt (approximately 1,850 sq. yd.), and Concrete Flag Paving, and including Surface Water Drainage, etc.
The Specification, Bill of Quantities and Form of Tender may be obtained, and Drawings inspected, on application to the City Engineer and Surveyor, Town Hall, Stoke-on-Trent, upon payment of a deposit of £3.
Tenders, appropriately endorsed, and Priced Bills of Quantities (in separate envelopes provided) be delivered to the undersigned by 12 Noon on WEDNESDAY, 13th September, 1961.

HARRY TAYLOR,
Town Clerk.

CONTRACTS

SOKE OF PETERBOROUGH COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

TENDER FOR THE SUPPLY AND DELIVERY OF EMERGENCY ROAD WORKS SIGNS FOR MOTORWAYS.

TENDERS are invited for the SUPPLY and DELIVERY of 13 EMERGENCY ROAD WORKS SIGNS complete with Portable Stands.
Persons wishing to tender may obtain Form of Tender, Specification and Conditions, and any further particulars from the County Surveyor, County Offices, Bridge Street, Peterborough.
Tenders must be forwarded to me, the undersigned, in the envelope provided and endorsed "Emergency Road Works Signs," bearing no mark or indication as to the sender, not later than 10 a.m. on MONDAY, 4th September, 1961.
Neither the lowest nor any Tender will necessarily be accepted.

ERIC P. SMITH,
Clerk of the County Council.

County Offices,
Bridge Street,
Peterborough,
11th August, 1961.

BOROUGH OF WORKINGTON.

ERECTION OF FOOTBRIDGE AT HIGH HARRINGTON.

TENDERS are invited from contractors for the CONSTRUCTION OF TWO MAIN AND TWO END ABUTMENTS, TWO REINFORCED CONCRETE END SPANS, and the ERECTION of a 70ft. TUBULAR STEEL FOOTBRIDGE over the railway at High Harrington.
Specification, Bill of Quantities and Form of Tender may be obtained on application from the Borough Surveyor, Stoneleigh, Park End Road, Workington.
Tenders, in the envelope provided, must reach the undersigned not later than 12 o'clock Noon on WEDNESDAY, 13th September, 1961.
The Council do not bind themselves to accept the lowest or any other Tender.

G. McKAY PORTER,
Town Clerk.

Town Hall,
Workington,
18th August, 1961.

BOROUGH OF TIPTON.

DEMOLITION OF CLUB PREMISES—CORNER OF CANAL STREET AND UNION STREET.

TENDERS are invited for the DEMOLITION OF CLUB PREMISES, consisting of One-, Two- and Three-storey Buildings.
Form of Tender and Specification may be obtained from the Borough Engineer and Surveyor, Municipal Buildings, Sedgley Road West, Tipton, upon deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender, together with all documents. Cheques are to be made payable to Tipton Corporation.
Tenders, to be returned in the envelope provided, not bearing any name or mark to indicate the sender, must reach the undersigned not later than First Post on WEDNESDAY, 6th September, 1961.
The Corporation does not bind itself to accept the lowest or any Tender.

K. W. MADIN,
Town Clerk.

Municipal Buildings,
Sedgley Road West,
Tipton, Staffs.

BOROUGH OF HOVE.

FLATS IN HARDWICK ROAD.

Applications to tender must be received by the Borough Engineer and Surveyor by 10 a.m. on MONDAY, 11th September, 1961. From such applications a selected list of tenderers will be made to whom Bills of Quantities and Forms of Tender will be forwarded on or about 15th September, 1961. Drawings and Form of Contract may be seen at the Borough Engineer and Surveyor's Office.
Applications to tender must be accompanied by a deposit of £3 3s., which will be refunded to those not invited to tender, or on receipt of a bona-fide Tender, as the case may be.
The Council do not bind themselves to accept the lowest or any Tender.
Tenders, on forms supplied, addressed to the undersigned, in a sealed envelope endorsed "Tender for Flats—Hardwick Road," must be delivered not later than 10 a.m. on 23rd OCTOBER, 1961.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove, 3.

LLANELLY CORPORATION AND LLANELLY RURAL DISTRICT COUNCIL.

WATER MAIN—COEDCAE TO BYNEA.

TENDERS are invited, on a Fixed-price Basis, from experienced public works contractors for the LAYING of about 5,000 yd. of 15in. WATER MAINS, using Asbestos-cement and Steel Pipes.
Applications for Contract documents should be accompanied by a deposit fee for £2 2s. which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and should be made to the Borough Engineer, A. B. RICHARDS, Town Hall, Llanelly.
Tenders, in plain sealed envelopes clearly marked "Bynea Water Main," must be delivered to the undersigned not later than Noon on 2nd SEPTEMBER, 1961.
The Corporation and Council do not bind themselves to accept the lowest or any Tender.

S. SAMUEL,
Town Clerk.

Town Hall,
Llanelly,
14th August, 1961.

GUILDFORD RURAL DISTRICT COUNCIL.

Applications are invited from contractors wishing to receive Specification for MODERNISATION OF 12 HOUSES at BROADWOOD COTTAGES, Wood Street, Worplesdon.

Specification, Plan and Form of Tender may be obtained from the Housing and Valuation Officer on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender. Cheques should be made payable to the Guildford R.D.C. and sent to the Housing and Valuation Officer.

Tenders, in the endorsed envelopes provided, are to be returned to the undersigned not later than 9.30 a.m. on MONDAY, 11th September, 1961.

E. W. SELLINGS,
Clerk of the Council.

Millmead House,
Guildford.

CONTRACTS

NOTTINGHAMSHIRE COUNTY COUNCIL.

HIGHWAYS COMMITTEE.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED ITEMS OF PLANT:

- 3 Lorries.
- 2 Road Rollers.
- 6 Tractors and Loading Equipment.
- 1 Concrete Mixer.
- 3 Air Compressors.
- 1 Concrete and Road Breaker.
- 2 Gritters.
- 3 Mowing Attachments for tractor.
- 3 Power Mowers.
- 2 Roadsweeper/Collectors.
- 1 Popping Trailer.

Further particulars are obtainable from the County Surveyor, Shire Hall, Nottingham.

Completed Tenders should be returned, in the envelopes provided, to the undersigned by the 22nd SEPTEMBER, 1961.

A. R. DAVIS,
Clerk of the County Council.

COUNTY BOROUGH OF HASTINGS.

TENDERS are invited on a Fixed-price Basis for the LAYING of approx. 300 lin. yd. of a 60in. extra strength CONCRETE PIPE CULVERT at PEBHAM TIP, and incidental Drainage Works consisting of the Construction of Manholes, Forebay and Tailbay. The pipes are to be supplied by the Corporation, delivered to site.

Drawings may be seen at the Offices of the Borough Surveyor, 37 Wellington Square, Hastings, from whom Contract documents may be obtained on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender.

Tenders, in envelopes provided, must be received by the undersigned not later than 10.30 a.m. on MONDAY, 18th September, 1961. The priced Bill of Quantities is to be deposited with the Borough Surveyor at the same time.
The Council do not bind themselves to accept the lowest or any Tender.

N. P. LESTER,
Town Clerk.

Town Hall,
Hastings.

BOROUGH OF DEAL.

HIGHWAYS ACT, 1959.

FIXED-PRICE TENDERS are invited for MAKING-UP KELVEDON ROAD, including the Construction of a Hardcore Base Carriageway Surfaced with Tarmacadam approx. 630 sq. yd., Flagged Footways, and ancillary works.

Tender Form, Specification and Bills of Quantities from the Borough Engineer on payment of Two Guineas, returnable to a bona-fide tenderer. Drawings may be inspected at the Borough Engineer's Office. Tenders must reach me by 10 a.m. on 18th SEPTEMBER, 1961.

E. BRADBURY,
Town Clerk.

Municipal Offices,
Queen Street,
Deal.

CITY OF CHESTER.

PROPOSED RECREATION GROUND—HANDBRIDGE.

TENDERS are invited on a Fixed-price Basis for the CONSTRUCTION of a CHILDREN'S PLAY-GROUND, Fencing, Clearing and Grassing of the adjacent open space, and other ancillary works.

Tender documents may be obtained from the City Engineer, 49 Northgate Street, Chester, and Tenders must be returned in a sealed envelope marked "Recreation Ground, Handbridge," to reach the TOWN CLERK, Town Hall, Chester, not later than SATURDAY, 9th September, 1961.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 769.

32 FOUR-STOREY DWELLINGS—WILLIS STREET, NICHOLS GREEN REDEVELOPMENT AREA.

The HOUSEBUILDING COMMITTEE invite TENDERS for the ERECTION of the ABOVE.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of A. G. SHEPPARD FIDLER, City Architect, Baskerville House, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 29th AUGUST, 1961. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona-fide tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, the 29th September, 1961. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

CITY OF MANCHESTER.

TENDERS invited for the SUPPLY and FIXING of METAL CURTAIN WALLING at ELIZABETH GASKELL COLLEGE EXTENSIONS.
Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall.
Tenders returnable by 6th SEPTEMBER.

URBAN DISTRICT COUNCIL OF CORBY.

CORONATION PARK—SECOND BOWLING GREEN.

TENDERS are invited from specialist contractors for the CONSTRUCTION of a SIX-RINK BOWLING GREEN, together with all Earthworks, and ancillary works.

Documents may be obtained from the undersigned on payment of a deposit of £1 (cheques being made payable to the Urban District Council of Corby). Bills will be returned on receipt of a bona-fide Tender.

Tenders should be returned to the undersigned, in the envelope provided, not later than 9 a.m. on WEDNESDAY, 6th September, 1961.

G. B. BLACKALL,
Clerk of the Council.

Council Offices,
Corby, Northants.
17th August, 1961.

CONTRACTS

STAFFORDSHIRE COUNTY COUNCIL.
COUNTY ROADS AND BRIDGES COMMITTEE.SERVICE ROAD AT LEAK NEW ROAD,
BADDELEY GREEN.TENDERS are invited for the MAKING-UP of this
SERVICE ROAD (length 121yd.).The work includes Excavating Part of the existing
Carriageway, Laying 3in. depth of Broken Stone, 3in.
Bituminous Macadam Surfacing, Concrete Kerbs and
Channel, Footpaths of 3in. Ashes and 1½in. Bitu-
minous Macadam Surfaced with 1½in. Cold Asphalt.
Copies of the Bill of Quantities and the Specifica-
tion may be obtained from the undersigned on payment
of a deposit of £5 which will be refunded on receipt
of a bona-fide Tender or the return of the documents
before the closing date.Tenders, endorsed "Private Street Works," and
bearing no indication of the sender, should be returned
to the undersigned not later than 10 a.m. on 13th
SEPTEMBER.The Council do not bind themselves to accept the
lowest or any Tender.T. H. EVANS,
Clerk to the County Council.
County Buildings,
Stafford.

BOROUGH OF TAUNTON.

EXTERNAL RENDERING TO 98 HOUSES.

MUSGROVE ESTATE, TAUNTON.

TENDERS are invited for the ABOVE WORKS.
Particulars, Specifications and Tender Forms obtain-
able from H. G. COX, F.I.H.S., Housing Maintenance
Superintendent, Lambrook Farm Depot, Priory Avenue,
Taunton.Tenders must be sent to me not later than 10 a.m.
on TUESDAY, 19th September, 1961.K. A. HORNE,
Town Clerk.
Municipal Buildings,
Taunton.

BOROUGH OF LEYTON.

TENDERS are invited for the SUPPLY and
DELIVERY of 1½ cu. yd. capacity GALVANISED
STEEL REFUSE CONTAINERS and Lids.Particulars, Conditions of Contract and Tender
Forms obtainable on application to the Borough
Engineer, Town Hall, Leyton, E.10.Tenders, in envelopes provided, must reach me not
later than Noon on 11th SEPTEMBER, 1961.D. J. OSBORNE,
Town Clerk.Town Hall,
Leyton, E.10.

BOROUGH OF WILLEDEN.

ANNUAL CONTRACT FOR CLEANING OF
COUNCIL SEWERS.TENDERS are invited for the CLEANING and
REMOVAL of OBSTRUCTING MATERIALS from
certain of the Council's Sewers located within the
Borough, and comprising work in circular and egg-
shaped sewers of varying sizes.Tender documents may be obtained from the
Borough Engineer and Surveyor, Town Hall, Dyne
Road, N.W.6, upon application in writing, accompa-
nied by a deposit of Two Guineas, which deposit
will be returned upon the receipt of a bona-fide
Tender not subsequently withdrawn.The sealed Tender must be submitted in the
envelope provided, and must not bear any name or
mark of the sender, and must reach the undersigned
by not later than 10 a.m. on THURSDAY, 7th
September, 1961.The Council does not bind itself to accept the
lowest or any Tender.R. S. FORSTER,
Town Clerk.Town Hall,
Dyne Road,
Kilburn, N.W.6.

15th August, 1961.

RAMSEY URBAN DISTRICT COUNCIL.

SCHOOL LANE HOUSING ESTATE.

18 TRADITIONAL DWELLINGS.

TO BUILDERS AND CONTRACTORS.

The Council invites TENDERS for the CONSTRUCTION
OF SIX HOUSES and 12 SELF-CONTAINED
FLATS on the School Lane Site, Ramsey, Huntingdon-
shire.Builders desirous of tendering should forward their
application, together with a deposit of £3 3s. (return-
able on receipt of a bona-fide Tender), to the Council's
Architects, PICK, EVERARD, KEAY AND GIMSON,
6 Millstone Lane, Leicester, when Bills of Quantities
will be supplied. Remittances should be made payable
to the Ramsey Urban District Council.Tenders for this work must be delivered to the
Council, in the endorsed envelope provided, not later
than 10 a.m. on MONDAY, 18th September, 1961.
The successful contractor will be required to provide
an approved guarantor for a sum not exceeding
10 per cent. of the Contract figure for the due
performance of the works.A. GRIFFITHS,
Clerk of the Council.Council Offices,
Bury Road,
Ramsey.

THAMES VALLEY WATER BOARD.

BLEWBURY PUMPING STATION.

PROPOSED NEW BOREHOLE—NO. 4.

FIXED-PRICE TENDERS are invited from experi-
enced contractors for the SINKING and TEST PUMP-
ING of a 24in./21in. normal dia. BOREHOLE approx.
200ft. deep.Drawings and General Conditions may be inspected
at the Office of the Engineer and Manager, 16/20
The Forebury, Reading. Copies of the Specification,
Bill of Quantities and Form of Tender, etc., may be
obtained from the undersigned on payment of a deposit
of £3 3s. (made payable to the Board) which will be
refunded on receipt of a bona-fide Tender and all
documents.Tenders must be received by First Post on
MONDAY, 18th September, 1961, in the addressed
envelope supplied.The work is subject to the necessary authority
being obtained from the Ministry, and the Board do
not bind themselves to accept the lowest or any
Tender.P. E. B. GOSLING,
Clerk/Treasurer.Berkeley Avenue,
Reading.

CONTRACTS

COUNTY BOROUGH OF EAST HAM.
STREET LIGHTING.

TENDERS are invited for the FOLLOWING:

- (1) The Supply and Erection of Concrete Lighting
Columns.
- (2) The Delivery and Erection of Street Lighting
Equipment.

The Scheme provides for the Supply and Erection of
107 15ft. Reinforced Concrete Columns, with an
alternative Scheme for 71 25ft. and 37 15ft. Re-
inforced Concrete Columns, together with Lanterns,
Lamps, and ancillary gear.Separate Forms of Tender and Specification for
either or both Contracts from the BOROUGH
ENGINEER, Town Hall, East Ham, E.6, on receipt
of a deposit of £2 2s.Tenders to be returned, in the envelope provided,
by not later than 12 Noon on TUESDAY, 12th
September, 1961.

COUNTY BOROUGH OF BIRKENHEAD.

SUPPLY OF TIMETABLES AND FARE LISTS.

TENDERS are invited for the SUPPLY of TIME-
TABLES and FARE LISTS.Tender Forms may be obtained from the General
Manager, Transport Department, Laird Street, Birken-
head, and the closing date for Tenders is
WEDNESDAY, 6th September, 1961.DONALD P. HEATH,
Town Clerk.Town Hall,
Birkenhead.

BOROUGH OF MAIDENHEAD.

BELMONT PARK ROAD.

PRIVATE STREET WORKS.

The COUNCIL invites TENDERS for the CONSTRUCTION
OF approx. 300 lin. yd. of ROAD, comprising
Surface Water Drainage, Hardcore Foundation, Tar-
macadam Base and Bituminous Macadam Wearing
Course to the Carriageway; Provision and Laying of
Precast Concrete Kerb and Scoriae Block Channel,
Precast Concrete Flag Paving and Grass Verges to
Footways; Erection of Lighting Columns, and all
incidental works.Drawings may be seen at, and Tender documents
obtained from, the Office of the Borough Engineer and
Surveyor, 14 Craufurd Rise, Maidenhead, on payment
of a deposit of Two Pounds (£2) which will be
refunded upon receipt of a bona-fide Tender and the return
of all documents.Tenders, in plain sealed envelopes endorsed
"Belmont Park Road—Private Street Works," and
bearing no mark or indication of the sender, must be
delivered to me not later than WEDNESDAY,
13th September, 1961.The Council does not bind itself to accept the
lowest or any other Tender.STANLEY PLATT,
Town Clerk.Guildhall,
Maidenhead.

August, 1961.

BOROUGH OF NEWCASTLE-UNDER-
LYME.

RELIEF CULVERT—LONDON ROAD, CHESTERTON.

TENDERS are invited for the PROVISION and
CONSTRUCTION of 135 lin. yd. of 6in. dia. and
40 lin. yd. of 42in. dia. CONCRETE CULVERT,
together with 72 lin. yd. of 18in. dia. Concrete Pipes,
130 lin. yd. of 6in. and 9in. Glazed Stoneware Pipes,
9 Manholes, and ancillary works.Information, Drawings and Tender documents may be
obtained from the Borough Engineer and Surveyor's
Department, Lancaster Building, High Street,
Newcastle-under-Lyme, Staffs.Tender Forms (in duplicate) and Bill of Quantities
must be returned to the undersigned not later than
12 Noon on TUESDAY, 12th September, 1961, in a
plain sealed envelope endorsed "Tender—Relief
Culvert—London Road, Chesterton."C. J. MORTON,
Town Clerk.

BOROUGH OF SUTTON COLDFIELD.

SPRINGFIELD ROAD HOUSING SITE—
ROADS AND SEWERS.FIXED-PRICE TENDERS are invited for the
CONSTRUCTION OF BUILDERS' ROADS, Sewers, and
other Preparatory Works for the ABOVE SITE.Briefly, the works comprise the Construction of
5,000 sq. yd. of Carriageway, and Laying 1,250
lin. yd. of 6in. and 9in. Sewers.Tender documents may be obtained from the
Borough Surveyor on deposit of a sum of £2 which
will be refunded on receipt of a bona-fide Tender.The Drawings may be inspected during normal office
hours.Tenders, in plain sealed envelopes, must be endorsed
"Tender—Springfield Road Housing Site—Roads and
Sewers," and must be returned not later than Noon,
FRIDAY, 15th September.J. P. HOLDEN,
Town Clerk.

15th August, 1961.

CITY OF LEEDS.

HIGHWAYS DEPARTMENT.

The HIGHWAYS COMMITTEE of the LEEDS CITY
COUNCIL invite TENDERS for:

- (a) PRIVATE STREET WORKS.
Kerbing, Tarmacadam Footpaths, and
Carriageways, etc., in the following:
Hill End Close.
Hill End Crescent.
Walker's Lane (Part).

(b) IMPROVEMENT WORKS—LIGHT INDUS-
TRIAL AREA.
Excavation, Reinforced Concrete Carriage-
way, Kerbing, and other works on Iveson
House—Light Industrial Area.Forms of Tender and Bills of Quantities may be
obtained upon payment of a deposit of One Guinea,
which amount will be returned upon receipt of a
bona-fide Tender. Plans, Specifications and copies of
the documents forming the Contract may be inspected
upon application to the Highways Engineer, 155
Kirkstall Road, Leeds, 4.Tenders will be considered only when submitted
sealed in the envelope provided, endorsed "Highways
Department—Tender for Contractors' Work," and not
bearing any name or mark indicating the sender.Tenders must be delivered at the Town Clerk's
Office (Committee Department Room 57, Civic Hall,
Leeds, 1, not later than 10 a.m. on THURSDAY, the
7th September, 1961.The lowest or any Tender will not necessarily be
accepted.W. J. HISCOCK,
Highways Engineer.

July, 1961.

CONTRACTS

BOROUGH OF HEMEL HEMPSTEAD.
SUPPLY OF LUBRICANTS AND STORAGE TANKS.TENDERS are invited for the SUPPLY of
LUBRICANTS for a period of five years, commencing
1st October, 1961, and ending 30th September, 1966,
and the SUPPLY of TWO BULK STORAGE TANKS.Tender documents may be obtained from A. H.
TURNER, A.M.I.C.E., Borough Engineer, High Street,
Hemel Hempstead, Herts., at whose Office the General
Conditions of Contract may be inspected during
normal office hours.Tenders, in sealed envelopes endorsed "Supply of
Lubricants and Storage Tanks," bearing no name or
indication of the sender, must be delivered to me not
later than Noon on the 4th SEPTEMBER, 1961.The Corporation do not bind themselves to accept
the lowest or any Tender.C. W. G. T. KIRK,
Town Clerk.Town Hall,
High Street,
Hemel Hempstead,
Herts.

18th August, 1961.

BOROUGH OF HEMEL HEMPSTEAD.

SUPPLY AND INSTALLATION OF LUBRICATION
EQUIPMENT.TENDERS are invited for the SUPPLY and
INSTALLATION of LUBRICATION BAY EQUIPMENT
at the Council's Works Department, Redbourn Road,
Cupid Green, Hemel Hempstead.Tender documents may be obtained from A. H.
TURNER, A.M.I.C.E., Borough Engineer, High Street,
Hemel Hempstead, Herts., at whose Office the General
Conditions of Contract may be inspected during
normal office hours.Tenders, in sealed envelopes endorsed "Supply and
Installation of Lubrication Equipment," and bearing
no indication of the sender, must be delivered to me
not later than 12 Noon on MONDAY, the 4th
September, 1961.The Corporation do not bind themselves to accept
the lowest or any Tender.C. W. G. T. KIRK,
Town Clerk.Town Hall,
High Street,
Hemel Hempstead,
Herts.

18th August, 1961.

URBAN DISTRICT COUNCIL OF
KNARESBOROUGH.

PRIVATE STREET WORKS.

TENTERGATE ROAD, AVENUE AND LANE (PART).

TENDERS are invited for the MAKING-UP of the
FOLLOWING:

- (a) Tentergate Road;
- (b) Tentergate Avenue;
- (c) Tentergate Lane (Part).

Specifications, Bills of Quantities and Forms of
Tender may be obtained from the Engineer and
Surveyor, Knareborough House, Knareborough (in
whose Office Drawings and General Conditions of
Contract may be inspected), on payment of a deposit
of £2 2s. which will be refunded on receipt of a
bona-fide Tender not subsequently withdrawn. Cheques
to be payable to Knareborough Urban District
Council.Tenders must be delivered, in the envelopes pro-
vided (which shall not bear any name or mark
indicating the sender), so as to reach the undersigned
not later than Noon on MONDAY, 18th September,
1961.The Council does not bind itself to accept the
lowest or any Tender.C. RILEY,
Clerk of the Council.Knareborough House,
Knareborough.

18th August, 1961.

BELPER URBAN DISTRICT COUNCIL.

REALIGNMENT AND WIDENING OF PART OF
QUEEN STREET AND THE FLEET, BELPER.FIXED-PRICE TENDERS are invited from experi-
enced public works contractors for the ABOVE
WORKS, comprising Demolition of Buildings, Clearing,
Surface Water Drainage, Earthworks, Construction of
Masonry Walls, Carriageway and Footpaths, and
Culverting of 12ft. wide Brook. The length of carria-
ge-way to be realigned and widened is approx. 200yd.Specification and Bills of Quantities may be obtained
from the Council's Engineer and Surveyor at the
address below on payment of £2 deposit (cheques
made payable to the Council) which will be returned
on receipt of a bona-fide Tender not subsequently
withdrawn, and the return of all loaned documents.Tenders, in plain sealed envelopes endorsed "The
Fleet—Widening," must be delivered to the under-
signed not later than 9 a.m. on SATURDAY, 23rd
September, 1961.The Council do not bind themselves to accept the
lowest or any Tender.CHARLES PRICE,
Clerk of the Council.Council Offices,
King Street,
Belper, Derby.

18th August, 1961.

FAIRFORTH URBAN DISTRICT
COUNCIL.

BRIERLEY AVENUE—ROAD EXTENSION.

TENDERS are invited for the CONSTRUCTION of
approx. 340yd. of the ABOVE ROAD between the
existing length of Briery Avenue to Ashton Road
East.The works comprise Excavation, Surface Water
sewerage, Construction of 24ft. Reinforced Concrete
Carriageway, Flagged Footways and Macadamised
Verges, over a total width of 54ft., Street Lighting,
and incidental works.Forms of Tender, Specification and Bill of Quantities
may be obtained from the Engineer and Surveyor's
Office on payment of £2 2s. deposit, refundable on
receipt of a bona-fide Tender not subsequently
withdrawn. Drawings may be inspected at the same
office during normal office hours.Tenders, enclosed in a plain sealed envelope
endorsed "Briery Avenue Extension," should be
returned to the undersigned not later than 12 o'clock
Noon on SATURDAY, 16th September, 1961.The Council do not bind themselves to accept the
lowest or any Tender.J. WALTON,
Clerk of the Council.Town Hall,
Fairfworth,
Near Manchester,
Lancs.

18th August, 1961.

CONTRACTS

ADMINISTRATIVE COUNTY OF LEICESTER.

TENDERS are invited for the WIDENING of LEICESTER ROAD BRIDGE, Syston, on the Leicester to Melton Mowbray Road, A.607.
Tender documents and Plans obtainable from the County Engineer and Surveyor, County Offices, Grey Friars, Leicester, on deposit of £5.
Closing date: 25th SEPTEMBER, 1961.
JOHN A. CHATTERTON,
Clerk to the County Council.

Grey Friars,
Leicester.

COUNTY COUNCIL OF DURHAM.

TENDERS invited for SUPPLY of the FOLLOWING:
(1) Physical Education Apparatus to Schools.
(2) Steel Furniture, Shelving and Aluminium Curtains to Consett Technical College.
Forms of Tender, returnable by 8th SEPTEMBER, 1961, and details from undersigned.
G. H. METCALFE,
Director of Education.

Shire Hall,
Durham.

14th August, 1961.

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

SEWAGE DISPOSAL WORKS, HOLDENHURST.

CONTRACT NO. 5.

TENDERS are invited for the CONSTRUCTION of LABORATORY BLOCK and SUPERSTRUCTURE of TWO PUMPING STATIONS on ABOVE SITE.
Form of Tender, etc., available from FARMER AND DARK, 14 High Street, Poole, from 28th August.
Tenders to reach me by 6th OCTOBER, 1961.
Town Clerk.
A. LINDSAY CLEGG.

Town Hall,
Bournemouth.

BOROUGH OF SPENBOROUGH.

PRIVATE STREET WORKS.

BROOKFIELD VIEW, AVENUE AND TERRACE, CLECKHEATON.

Tenders, on a Fixed-price Basis, are invited for CARRYING OUT ROADWORKS and Surface Water Drainage, comprising approx. 300 lin. yd. of 5in. x 10in. P.C.C. Edging, 250 lin. yd. 6in. x 5in. P.C.C. Edging; 710 sq. yd. 2½in. P.C.C. Flagging, 2,160 sq. yd. of Cold Asphalt Surfacing, together with 325 lin. yd. of 9in. and 6in. Surface Water Sewers, Manholes, etc.
Copies of the Contract Drawings may be inspected at the Office of the Borough Engineer, from whom copies of the Specification, Bills of Quantities, etc., may be obtained.
Tenders, in plain envelopes endorsed "Brookfield View, Avenue and Terrace, Cleckheaton," to reach me by 7th SEPTEMBER, 1961.
K. H. CHORLTON,
Town Clerk.

Spenborough Town Hall,
Cleckheaton.

17th August, 1961.

CITY OF SHEFFIELD.

TENDERS are invited for the SUPPLY of ELECTRIC LAMPS to all Departments of the Sheffield Corporation from 1st October, 1961.
The necessary Forms of Tender may be obtained on application to the Town Clerk, Town Hall, Sheffield, to whom completed Forms of Tender must be delivered not later than 10 a.m. on FRIDAY, 8th September, 1961.
JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield.

24th August, 1961.

STAFFORDSHIRE POTTERIES WATER BOARD.

TITTESWORTH RESERVOIR SCHEME.

CONTRACT NO. 54.

MAIN BUILDINGS FOR WATER TREATMENT PLANT.

The Board invite TENDERS from experienced contractors for the CONSTRUCTION of a REINFORCED CONCRETE, BRICK AND STONE BUILDING incorporating Clear Water Pump House, Administrative Block and Chemical House; a Reinforced Concrete, Brick and Stone Raw Water Pump House; together with Access Roads, Drainage and ancillary works, at the site of the Board's Tittesworth Reservoir in the Rural District of Leek, the entrance road to the reservoir being about two miles north of Leek, on the main Leek-Buxton Road, A.53.

The Form of Tender, Conditions of Contract, Specification and Bill of Quantities may be obtained from the undersigned on deposit of a cheque for Five Guineas which will be returned only on receipt of a bona-fide Tender not subsequently withdrawn.
Plans of the proposed works may be inspected at the Engineer and Manager's Office.

Two separate Tenders are required:
(1) Tender with Variations in Wages and Materials;
(2) Tender on Fixed-price Basis without any Variation being allowed in Wages and Materials.

The two Forms of Tender and annexed documents, completed on the alternative bases mentioned above, must be enclosed in the plain envelope provided, endorsed "Tender for Buildings—Water Treatment Plant," addressed to the Chairman, Staffordshire Potteries Water Board, c/o Engineer and Manager's Office, Albion Street, Hanley, Stoke-on-Trent, and delivered not later than 12 Noon on TUESDAY, 19th September, 1961. The envelope must not bear any name or mark indicating the sender.

At the same time, copies of the completely priced Bills of Quantities for each of the alternative bases mentioned above must be delivered in one separate sealed envelope, similarly addressed, within the same time. This sealed envelope must be endorsed "Priced Bills for Buildings—Water Treatment Plant," and bear the tenderer's name.

Tenders which do not comply with the above requirements will not be considered.
The Board do not bind themselves to accept the lowest or any Tender.

C. V. BROWN, M.I.C.E., M.I.Mech.E.,
M.I.W.E.,
Engineer and Manager and
Clerk to the Board.

Albion Street,
Hanley,
Stoke-on-Trent.

CONTRACTS

HERTFORDSHIRE COUNTY COUNCIL.

TENDERS are invited for the FOLLOWING CONTRACT:
Tippendell Lane, St. Albans: Road Improvement Works from the Junction of Penn Road to the Junction with the North Orbital Road, A.405.

The works comprise Site Clearance, 3,800 cu. yd. Excavation, 1,000 lin. yd. of Kerbing and Channelling, 4,100 sq. yd. Carriageway Construction comprising of Rolled Lean-Mix Concrete, Gravel Asphalt Base Course and Asphalt Wearing Course, 850 lin. yd. of Construction, 575 lin. yd. of Concrete Post and Chain Link Fencing.

Tender documents may be obtained from, and Drawings inspected at, the Office of the County Surveyor, County Hall, Hertford, on or after MONDAY, 28th August, 1961.

Tenders are to be returned to the CLERK OF THE COUNTY COUNCIL not later than 10 a.m. on WEDNESDAY, 20th September, 1961.

The County Council are not bound to accept the lowest or any Tender.
County Hall,
Hertford.

COUNTY BOROUGH OF GATESHEAD.

PROPOSED PREPARATION OF PLAYING FIELDS.

Contractors wishing to TENDER for the MAJOR LEVELLING, PREPARATION, SEEDING, DRAINAGE and FENCING of approx. 26 acres of PLAYING FIELDS at BEACON HILL, Gateshead, are invited to submit their names to the Borough Surveyor, Swinburne Street, Gateshead, 8, not later than MONDAY, 28th August, 1961, together with a deposit of Three Pounds which will be refunded on receipt of a bona-fide Tender or the return of the Drawings and Specification.

The successful contractor will be required to provide a bond of not more than 10 per cent. of the value of the Contract for the due and proper completion of the works, and to comply with the General Conditions of Contract issued by the Corporation.

He will be expected to carry out the major part of the levelling by the winter, and the drainage and seeding of the fields the following spring or autumn. The Council do not bind themselves to accept the lowest or any Tender.

C. D. JACKSON,
Town Clerk.

Town Hall,
Gateshead, 8.

BOROUGH OF SUTTON COLDFIELD.

TENDERS are invited for the FOLLOWING WORKS to various CLASSIFIED and DISTRICT ROADS in the Borough:

(1) Reinstatement Works (deposit £1).
Permanent Reinstatement of Trenches in Footpaths and Carriageways in the Borough, following mainlaying operations.

(2) Kerbing and Paving Work (Deposit £2).
(a) Kerbing and Slab Paving; and/or
(b) Bituminous Macadam Paving.

It is anticipated that the works involved by both Contracts will extend over a period of one year.

Contract documents (deposits as stated above), returnable on receipt of a bona-fide Tender not subsequently withdrawn, may be obtained from the Borough Surveyor. Tenders may be submitted for Contract (1) and in Contract (2) for Section (a) and/or (b).

Tenders to be submitted to the undersigned, in plain sealed envelopes endorsed either (1) "Reinstatements," or (2) "Kerbing and Paving," not later than Noon on the 12th SEPTEMBER, 1961.

J. P. HOLDEN,
Town Clerk.

Council House,
Sutton Coldfield.

CITY OF LEICESTER

HOUSING COMMITTEE.

Contractors willing to TENDER in October for the ERECTION of 156 THREE-STORY FLATS, of Traditional Construction, at GLEN PARVA, Leicester, in a firm period of 20 months commencing next January, with a guaranteed output of 12 flats per month after July 1962, may obtain details of the Contract from the CITY ARCHITECT, Halford House, Charles Street, Leicester.

SWADLINCOTE URBAN DISTRICT COUNCIL.

TENDERS FOR ROAD SWEEPING MACHINE.

The Council invite TENDERS from experienced firms for the SUPPLY and DELIVERY of ONE DIESEL-ENGINE ROAD SWEEPING MACHINE.
Details of requirements and Form of Tender may be obtained from the Engineer and Surveyor, Bank House, Swadlincote.

Tender Forms, together with all details and complete Specification, should be sent in a plain sealed envelope to the Office of the Clerk of the Council, endorsed "Tender for Road Sweeping Machine," and should be delivered before First Post on MONDAY, 11th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

C. D. HULL,
Clerk of the Council.

LEEDS REGIONAL HOSPITAL BOARD.

TO HEATING AND/OR ELECTRICAL CONTRACTORS.

TENDERS are invited for CARRYING OUT the FOLLOWING:

(a) Air Conditioning, Heating, Hot Water Supply and Sterilising Equipment Installations;
(b) Electrical Installation, at the Lloyd Hospital, Bridlington.

Applications for Form of Tender and Specification and Drawings, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Regional Engineer at the undermentioned address not later than 12 Noon on WEDNESDAY, 14th September, 1961. Cheques payable to the Leeds Regional Hospital Board, and crossed.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the Office of the Regional Engineer, or at the Office of MESSRS. LEAKE AND WILSON, Consultant Engineers, Oriel Chambers, 27 High Street, Hull.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on MONDAY, 2nd October, 1961.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate, Yorks.

CONTRACTS

WILTSHIRE COUNTY COUNCIL.

TENDERS invited for the FOLLOWING:
Improvement of the London-Bristol Trunk Road, A.4, approx. ½ mile east of Cherhill. The works comprise the Excavation for, and Construction of, Widening and Realignment of the existing Carriageway over a length of approx. 1,000 lin. yd., including Kerbing, Drainage, Footpath, Realignment and Adjustment of G.P.O. plant, and ancillary works.

Relevant documents obtainable from County Surveyor, County Hall, Trowbridge, on payment of £2 deposit, returnable on receipt of a bona-fide Tender. Drawings may be inspected by appointment at the above address.

Tenders, in envelopes bearing no name or mark indicating origin, returnable by 5 p.m. on the 12th of SEPTEMBER, 1961.

R. P. HARRIES,
Clerk of the County Council.

NOTTINGHAMSHIRE COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of TUNICS and TROUSERS for Ambulance Service Personnel.
Further details and Forms of Tender are obtainable from the County Medical Officer, Shire Hall, Nottingham.

Completed Tenders are to be returned to the undersigned, in the envelope to be provided, by the 8th SEPTEMBER, 1961.

A. R. DAVIS,
Clerk of the County Council.

FLINTSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

TENDERS are invited for the SUPPLY and DELIVERY of TYRES, TUBES and REMOULDS.
Form of Tender, obtainable from County Surveyor, Llwynegryn, Mold, to be returned to me not later than Noon, MONDAY, 11th September, 1961.

W. HUGH JONES,
Clerk of the County Council.

County Buildings,
Mold.

SOMERSET COUNTY COUNCIL.

ROADWORKS NEAR WESTON-SUPER-MARE.

TENDERS are invited for the WIDENING, REALIGNMENT and RECONSTRUCTION of approx. 1 mile of ROAD at OLMIMIXON, near Weston-super-Mare, Somerset.

Specification, Bill of Quantities and Form of Tender may be obtained from the Office of the County Surveyor, County Hall, Taunton, Somerset, where the Drawings may also be inspected during normal office hours. Drawings may also be inspected at the Office of the Borough Engineer, Town Hall, Weston-super-Mare, Somerset. A fee of £2 is payable and returnable on receipt of a bona-fide Tender and return of all documents.

No Tender will be received except in the plain envelope provided for the purpose, which shall bear the words "Tender for Roadworks at Olmixon," but shall not bear any name or mark indicating the sender, and shall be delivered or sent by Post to reach the Clerk of the County Council, County Hall, Taunton, not later than Noon on MONDAY, the 25th September, 1961.

J. H. H. WILKES, B.Sc., M.I.C.E.,
County Surveyor.

County Hall,
Taunton, Som.

BOROUGH OF HARROGATE.

TO CONTRACTORS.

HARLOW HILL DRAINAGE SCHEME.

TENDERS are invited for the CONSTRUCTION of a REINFORCED CONCRETE PUMPING STATION, 6in. dia. Spun-iron Rising Main, and the Laying of 9in. dia. S.G.W. Pipes.

Plans and Conditions of Contract may be inspected at the Office of the Borough Engineer, from whom the Specification, Bill of Quantities and Form of Tender may be obtained.

Sealed and endorsed Tenders, on the official form, together with the priced Bill of Quantities, are to be delivered, in the envelope provided, to the Borough Engineer not later than 9 a.m. on WEDNESDAY, 6th September, 1961.

The lowest or any Tender will not necessarily be accepted.

C. E. FELLOWS,
Borough Engineer.

Municipal Offices,
Harrogate.

17th August, 1961.

MALVERN URBAN DISTRICT COUNCIL.

GROUP "B" STREET LIGHTING—PHASE III.

TENDERS are invited for the ERECTION of 298 CONCRETE COLUMNS and Lanterns, and Provision of WIRING and LAMPS in the Residential Area of GREAT MALVERN.

Drawings and Conditions of Contract may be inspected at the Office of the Surveyor and Water Engineer, C. C. JUDSON, B.Sc., A.M.I.C.E., The Council House, Malvern, from whom the Form of Tender, Specification, etc., may be obtained on payment of a deposit of £2 2s., returnable where a bona-fide Tender is received within the prescribed period.

Tenders must be delivered to the undersigned not later than Noon on FRIDAY, 15th September, 1961, in plain endorsed envelope provided.

The Council do not bind themselves to accept the lowest or any Tender.

J. BULMAN,
Clerk of the Council.

The Council House,
Malvern.

19th August, 1961.

STROUD URBAN DISTRICT COUNCIL.

LONDON ROAD DEPOT.

TENDERS are invited for the CONSTRUCTION of approx. 3,500 sq. ft. of WORKSHOPS, STORES, etc., within existing prefabricated concrete frames.

Form of Tender and Bills of Quantities may be obtained, upon application to the Engineer and Surveyor.

Tenders, in plain sealed envelopes endorsed "Tender—London Road Depot," must be sent to the undersigned by First Post on 23rd SEPTEMBER, 1961.

The Council does not bind itself to accept the lowest or any Tender.

W. D. WILSON,
Clerk of the Council.

Council Chambers,
High Street,
Stroud, Glos.

CONTRACTS

WILTSHIRE COUNTY COUNCIL.

TENDERS invited for the FOLLOWING:
Improvement of the Junction of London-Bristol Trunk Road, A.4, with Silver Street (B.3102) in Calne (White Hart cross-roads). The works comprise of Demolishing of Premises known as South Place, Calne, together with various Outbuildings and Greenhouse, Constructing new Carriageway approx. 365 sq. yd., and Paved Footway approx. 920 sq. yd., including Kerbing, Drainage, and other ancillary work.
Inspection of interior of buildings can be arranged by appointment.
Relevant documents obtainable from County Surveyor, County Hall, Trowbridge, on payment of £2 deposit, returnable on receipt of a bona-fide Tender. Drawings may be inspected by appointment at the above address.
Tenders, in envelopes bearing no name or mark indicating origin, returnable by 5 p.m. on the 12th of SEPTEMBER, 1961.

R. P. HARRIES,
Clerk of the County Council.

BEESTON AND STAPLEFORD
URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

JOYCE AVENUE AND CLEVE AVENUE, TONON.

TENDERS are invited for MAKING-UP PARTS of the ABOVE PRIVATE STREETS, including Excavations, Sewering, Kerbing and Channelling, Foundation, Surfacing, and Footpath Works.
Bills of Quantities may be obtained from the Engineer and Surveyor, Town Hall, Beeston, upon payment of a deposit of One Guinea in respect of each street, which will be returnable upon receipt of a bona-fide Tender not subsequently withdrawn.
Tenders are to be returned to the undersigned, in plain sealed envelopes marked "Tenders for Private Streets—Joyce Avenue/Cleve Avenue," not later than Noon on MONDAY, 4th September, 1961.

H. D. JEFFRIES
Clerk of the Council.

Town Hall,
Beeston, Notts.

BENFLEET URBAN DISTRICT COUNCIL.

TARPOIS INTERCEPTING SEWER.

CONTRACT NO. 3.

TENDERS are invited on a Fixed-price Basis from contractors experienced in similar works, for the CONSTRUCTION and MAINTENANCE of approx. 2,500 yd. of 15in. to 9in. dia. CONCRETE or STONE-WARE SEWERS and 176yd. of 15in. dia. STEEL SEWER, Manholes, and all other works incidental thereto, in the above Urban District.

Form of Tender, Bills of Quantities, Conditions of Contract and Specification may be obtained on or after 1st September on application to the Council's Engineers, MESSRS. LEMON AND BLIZARD, 59 Tufton Street, Westminster, London, S.W.1, on payment of a deposit of Five Guineas which will be returned on the receipt of a bona-fide Tender not subsequently withdrawn. Cheques to be made payable to the Benfleet Urban District Council.

The Drawings may be inspected at the Office of the Council or the Office of the Council's Engineers during ordinary office hours.

Tenders, on the form provided, accompanied by fully priced Bills of Quantities, enclosed in plain sealed envelope which shall not bear any name or mark indicating the sender, must be endorsed "Tender for Tarpois Intercepting Sewer," and must reach the undersigned not later than Noon on MONDAY, 2nd October.

The Council do not bind themselves to accept the lowest or any Tender.

D. GRUDINGS,
Clerk of the Council.

Council Offices,
Thundersley,
Essex.

25th August, 1961.

LEATHERHEAD URBAN DISTRICT
COUNCIL.

TENDERS are invited for the PROVISION and ERECTION of about 700 yd. of 6in. CHAIN LINK FENCING at LEATHERHEAD SEWAGE WORKS.

Tender documents obtainable, and Site Plans may be inspected, at Engineer and Surveyor's Department, Red House, Leatherhead.

Tenders, in envelopes provided, to be delivered to the undersigned by Noon, 11th SEPTEMBER, 1961.

J. EDE,
Clerk of the Council.

SUB-CONTRACTS WANTED.—SEWERS, HEADINGS, WATER and GAS MAINS, UNDERGROUND CABLES, etc. MOLLOY, 102 Elford Place, Harehills Road, Leeds, 8.

CONTRACTS AVAILABLE.—Roads, Sewers, Light and Heavy Civil Engineering, Excavation and Building. No need to be short of work if you use Britain's top PRIVATE ESTIMATOR and give your tenders a chance they never had before. No tender too large or too small. Practical help with modest fees. Phone, call or write: R. J. CARR, 75 Leadenhall Street, London, E.C.3. Telephone: Avenue 9676-1120.

For Contracts received too late for
classification see page 925

APPOINTMENTS VACANT

CENTRAL ELECTRICITY GENERATING
BOARD.

MIDLANDS REGION.

THIRD ASSISTANT ENGINEER
(QUANTITY SURVEYOR).

APPLICATIONS are invited from suitably qualified persons for the ABOVE APPOINTMENT in the Regional Electrical Department, at Headquarters, Birmingham.

Candidates should have experience in reinforced concrete foundations and building construction, estimating, billing and measurement for power stations or other large-scale industrial buildings.

The position will be at Third Assistant Engineer level, and the salary will be within Grade L7 of Schedule "A" of the National Joint Board Agreement (£1,260-£1,610 p.a.).

Applications, in writing, should be addressed to the ASSISTANT REGIONAL SECRETARY (PERSONNEL), 53 Wake Green Road, Moseley, Birmingham, 13, to arrive not later than 1st AUGUST, 1961, quoting "Vacancy No. MR/195".

APPOINTMENTS VACANT

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.APPOINTMENT OF TOWN PLANNING ASSISTANT—
GRADE A.P.T. V.

APPLICATIONS are invited for the APPOINTMENT of TOWN PLANNING ASSISTANT. Salary A.P.T. V (£1,310-£1,480 p.a. plus London Weighting).

Candidates must possess appropriate qualifications and have had good experience in dealing with planning applications and the general town planning administration.

The Council are prepared to assist by making a mortgage advance for house purchase, and making a contribution up to £25 towards the cost of removal expenses.

Full details and Forms of Application may be obtained from the Borough Engineer, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on MONDAY, 4th September, 1961.

(Signed) R. S. FORSTER,
Town Clerk.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Building Surveyor's Sections:

(a) General Assistants (2 Posts), within Grade A.P.T. II (£815-£960 p.a.).
(b) General Assistant, within Grade A.P.T. I (£645-£815 p.a.).

London Weighting is payable in addition to both above salaries.

There is no age limit, but applicants should have had experience in the general work of a Building Surveyor's Office, and the administration of Building By-laws and the Town Planning Acts. For one of the (a) posts, experience of dealing with the control of advertisements will be an advantage.

The Council are prepared to assist by making a mortgage advance for house purchase, and making a contribution up to £25 towards the cost of removal expenses.

Full details and Forms of Application may be obtained from the Borough Engineer, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on MONDAY, 4th September, 1961.

(Signed) R. S. FORSTER,
Town Clerk.

BOROUGH OF WANSTEAD AND
WOODFORD.

ASSISTANT WORKS SUPERINTENDENT.

A.P.T. II (£815-£960, PLUS LONDON WEIGHTING).

APPLICATIONS are invited for this ESTABLISHED APPOINTMENT at a salary within the above grade. Experience in the administration of transport will be advantageous, and a van is provided for the successful applicant to carry out his duties.

The Council is prepared to assist the successful candidate in the provision of housing accommodation. Applications, or forms, should be obtained from the undersigned, and to be returned by First Post on 31st AUGUST, 1961.

L. S. JEFFERY,
Borough Engineer and Surveyor.

Municipal Offices,
High Road,
E.18.

BOROUGH OF DROITWICH.

CLERK OF WORKS.

APPLICATIONS are invited for the TEMPORARY APPOINTMENT of a CLERK OF WORKS, salary in accordance with Grade A.P.T. II (£815-£960). The point of entry will be determined by the applicant's qualifications and experience.

The successful applicant will be required for work on a sewerage scheme to include the construction of a pumping station, concrete sedimentation tank, and sewers, under the direction of the Council's Consulting Engineers, and further upon road improvement works, estate roads and new housing under the direction of the Borough Engineer and Surveyor.

The town is a rapidly growing one, with a considerable programme of capital work, and the appointment will be for a period of not less than three years.

Applications, stating age, qualifications and experience, together with the names and addresses of three referees, should reach the undersigned not later than FRIDAY, 25th August, 1961.

Canvassing will be a disqualification.

GRAHAM L. ROBINSON, M.I.Mun.E.,
M.R.S.H.

Borough Engineer and Surveyor.

Town Hall,
Droitwich.

9th August, 1961.

CITY OF PLYMOUTH.

APPLICATIONS are invited for the APPOINTMENT of ASSISTANT ENGINEERS, Grade A.P.T. III (£960-£1,140).

Candidates should have completed recognised professional training and be capable surveyors. It is the practice of the Council to pay half the cost of household removal expenses up to a maximum contribution of £25.

Housing accommodation may be available in certain circumstances.

The appointment is superannuable, subject to medical examination, and the age limit is 40 years, or 45 years if serving with another local authority.

Applications, on forms obtainable from the undersigned, to be returned by 2nd SEPTEMBER, 1961.

J. ACKROYD,
City Engineer and Surveyor.

The Guildhall,
Plymouth.

GWYNEDD RIVER BOARD.

APPOINTMENT OF FOREMAN MECHANIC.

The Board invites APPLICATIONS from suitably qualified MECHANICS for the POST of FOREMAN in their workshops at Dinas, near Caernarvon. Applicants should have served their apprenticeship in an engineering works, and should have extensive experience in repairing and maintaining all types of excavators, tractors and other earthmoving equipment; also all types of motor vehicles. The post is pensionable after six months' satisfactory employment. Rate of pay, £12 4s. 3d. per week.

Forms of application can be obtained from the undersigned, and should be returned by 9th SEPTEMBER, 1961.

ALWYNE H. JONES,
Chief Engineer.

Highfield,
Caernarvon.

APPOINTMENTS VACANT

SIERRA LEONE.

DEPARTMENT OF AGRICULTURE.

IRRIGATION AND DRAINAGE ENGINEER.

Duties: To take charge of the Irrigation and Drainage Branch of the Department of Agriculture. Work will include design and construction of water development works, particularly in connection with swamp reclamations.

Qualifications: Candidates, up to 50 years of age, must be A.M.I.C.E. and have had experience in swamp reclamation in conditions of tropical rainfall.

Terms: Two tours of 15 to 18 months.

Total Emoluments (including gratuity): In Scale £2,645 to £2,817 p.a.

Education and Children's Allowances up to £96 p.a. Free passages. Generous leave.

Apply SIERRA LEONE RECRUITING AGENCY, Room 756, Sanctuary Buildings, Great Smith Street, London, S.W.1, quoting RC.213/132/01/D14, and giving full name and age, and brief details of qualifications and experience.

SIERRA LEONE.

PUBLIC WORKS DEPARTMENT.

SENIOR EXECUTIVE ENGINEER.

Duties: To head Public Works Department, Water Supplies Section.

Qualifications: Candidates (aged 35 to 42) should be A.M.I.C.E., with not less than four years' practising experience after election to Corporate Membership. Experience of urban water supplies and rural water supplies schemes is also required.

Terms of Appointment: Contract for one tour of 15-18 months.

Total Emoluments (including gratuity) In Scale £2,645 to £2,817 p.a.

Education and Children's Allowances up to £96 p.a. Free passages. Generous leave.

Apply SIERRA LEONE RECRUITING AGENCY, Room 756, Sanctuary Buildings, Great Smith Street, London, S.W.1, quoting RC.210/132/01/D14, and giving full name and age, and brief details of qualifications and experience.

METROPOLITAN BOROUGH OF
ST. MARLYEBONE.

CLERK OF WORKS REQUIRED. Borough Engineer's Department, Grade A.P.T. II/III (£815-£1,140 plus London Weighting).

Permanent, superannuable appointment. Commencing salary within Scale according to qualifications and experience. Applicants should have served apprenticeship within building trade, and hold First-Class City and Guilds Certificate or Certificate of Clerk of Works, or equivalent, or have had experience in supervision of building works as General Foreman and/or Clerk of Works is essential.

Write ESTABLISHMENT OFFICER, Town Hall, St. Marylebone, W.1, for Application Form, returnable by 6th SEPTEMBER, 1961.

CITY OF SHEFFIELD.

PUBLIC WORKS DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Public Works Department (HENRY SMITH, A.R.I.C. General Manager). All the posts are permanent appointments, initially on a £312m. scheme of high flat development.

(1) Site Quantity Surveyor—Grade V—Salary £1,310-£1,480.

Applicants must be fully experienced in site measurement, adjustment of variations, interim and final accounts, and have some experience in control of bonus operations.

(2) Assistant Site Quantity Surveyor—Grade IV—Salary £1,140-£1,310.

Applicants must have had suitable site experience under the foregoing headings.

(3) Senior Assistant—Works (Two required)—Grade IV-V—Salary £1,140-£1,480.

Applicants must have had wide experience as Sub-agents or General Foremen, and be accustomed to dealing with large-scale reinforced concrete construction.

(4) Site Engineer—Grade IV—Salary £1,140-£1,310.

A young Engineer is required with some contracting experience and with an interest in setting-out, site organisation, and concrete technology.

The starting point within the salary range mentioned will depend upon experience and qualifications.

Applications, stating age, experience, qualifications, present employment, together with the names of two referees, to reach the undersigned not later than the 4th SEPTEMBER, 1961.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

8th August, 1961.

CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.

ASSISTANT QUANTITY SURVEYOR
(GRADE A.P.T. V—£1,310-£1,480).

APPLICATIONS are invited for the ABOVE POSITION from persons capable of taking responsibility for all the quantity surveying work on individual major building projects.

They should be Associates of the Royal Institution of Chartered Surveyors, or if not so qualified, have extensive professional experience. Commencing salary will depend on experience.

Applications are to be made on forms to be obtained from the CITY ENGINEER AND SURVEYOR, Guildhall, Nottingham, to whom they should be returned not later than 11th SEPTEMBER, 1961.

THE EAST SURREY WATER COMPANY.

INSPECTOR OF WORKS.

APPLICATIONS are invited for an experienced INSPECTOR OF WORKS to assist in the supervision of a £600,000 scheme at Leatherhead, Surrey, to provide more water.

The work consists of reinforced concrete water-retaining structures, having barrel vault roof, installation of water treatment, and pumping plant, and mainlaying. Period of contract at least two years.

Housing accommodation is available at low rental. Applications to undersigned by MONDAY, 4th September, 1961.

G. M. SWALES, B.Eng., M.I.C.E.,
M.I.W.E.,
Chief Engineer.

London Road,
Redhill, Surrey.

APPOINTMENTS VACANT

SARAWAK

PUBLIC WORKS DEPARTMENT.

SUPERINTENDENT ENGINEER (ROADS).

Duties: Primarily concerned with control of preliminary reconnaissance, route location, and detailed engineering design of trunk roads through virgin country. Candidates must be prepared to live in jungle conditions.

Qualifications: Candidates (aged 40-45) should have either a University degree, or equivalent, recognised by the Institution of Civil Engineers, or be A.M.I.C.E., and have had considerable experience in survey location and design of major roads under rain forest type tropical conditions.

Terms of Appointment: Contract for one tour of 36 months.

Emoluments (including gratuity): £2,913 p.a. Child and Education Allowances of up to £280 p.a. per child. Free passages. Free medical attention.

Apply DIRECTOR OF RECRUITMENT, Department of Technical Co-operation, Carillon House, Terrace, London, S.W.1, quoting RC210/128/01/D14, and giving full name, age, and brief details of qualifications and experience.

COUNTY BOROUGH OF BURY.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:

- Senior Assistant Architect, A.P.T. IV (£1,140-£1,310).
- Assistant Architect (2), A.P.T. I or II or III (£645-£815 or £815-£960 or £960-£1,140).
- Senior Assistant Planning Officer (2), A.P.T. IV (£1,140-£1,310).

Applicants for appointment (a) should be experienced in dealing with contracts for large public works, and must be professionally qualified.

Applicants for appointment (b) should have general experience in the design and construction of public buildings, and success in Part I or Part II of the R.I.B.A. Final or Special Examination, or other equivalent at one of the recognised schools of architecture will entitle the applicant to appointment on A.P.T. III.

Applicants for appointment (c) should be experienced in either development control or redevelopment and research projects, and should be professionally qualified.

Consideration will be given to the provision of housing accommodation.

Applications, stating age, qualifications, experience, present and previous appointments, together with the names of two referees, must reach me by the 11th SEPTEMBER, 1961.

EDWARD S. SMITH, Town Clerk.

Town Hall, Bury.

COUNTY BOROUGH OF HUDDERSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:

- Senior Assistant Engineer—Grade A.P.T. IV (£1,140-£1,310).
- Engineering Assistant (Roads)—Grade A.P.T. III (£960-£1,140).
- Engineering Assistant (Roads)—Grade A.P.T. II (£815-£960).
- Surveying Assistant (Roads)—Grade A.P.T. II (£815-£960).
- Quantity Surveying Assistant—Grade A.P.T. I (£645-£815).

Applicants for position:

(a) should be Associate Members of the Institution of Civil Engineers or the Institution of Municipal Engineers, and should have practical experience on roadworks and/or the design and construction of reinforced concrete.

(b) should preferably have passed the Final Examination of either of the above-mentioned Institutions and have general experience in a Municipal Engineer's Office.

(c) should have passed the Intermediate Examination of either of the above-mentioned Institutions, or be University Graduates.

(d) should be competent land surveyors, with experience of chain and instrument surveying, and preferably have been trained in the Ordnance Survey Department.

(e) should have experience of the measurement of, and estimating for, civil engineering and building works, and experience of work study would be an advantage.

All the appointments are superannuable and subject to medical examination.

Applications, stating age, experience, and the names of not more than three referees, should reach A. L. PERCY, M.I.C.E., Borough Engineer and Surveyor, High Street Buildings, Huddersfield, not later than MONDAY, the 11th SEPTEMBER, 1961.

Canvassing is prohibited and will be considered a disqualification.

HARRY BANN, Town Clerk.

Town Hall, Huddersfield.

BOROUGH OF SWINTON & PENDELBURY.

CLIFTON DRAINAGE—CONTRACT NO. 4.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT OF RESIDENT ENGINEER to supervise the construction of approx. 1,100 lin. yd. of spun-iron, cast-iron and steel sewers varying in diameter from 9in. to 30in., with manholes, etc., and appurtenant works. The work will be executed by contract, and the Resident Engineer will be under the direction and control of the Corporation's Consulting Engineers, MESSRS. G. B. KERSHAW AND KAUFMAN. The post is not superannuable.

The salary will be at the rate of £1,400 p.a. plus car allowance of £90 p.a., and the appointment will be determinable by one month's notice. Details of holiday and sick-pay entitlement are obtainable from the undersigned. It is anticipated that the duration of the appointment, subject to satisfactory service, will be approx. 12 months.

It is essential that applicants shall have had considerable and wide experience in a senior capacity on similar works of sewerage.

Applications, enclosed with Resident Engineer—Clifton Drainage—Contract No. 4, stating age, qualifications and when disengaged, and giving full particulars of previous experience, together with the names of three persons to whom reference can be made, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, the 20th day of September, 1961.

J. W. BLOMELEY, Town Clerk.

Town Hall, Swinton, Lancs.
23rd August, 1961.

APPOINTMENTS VACANT

LANCASHIRE COUNTY COUNCIL.

APPLICATIONS are invited from suitably qualified ENGINEERING ASSISTANTS for vacancies on Grades A.P.T. III (£960-£1,140) and A.P.T. IV (£1,140-£1,310) in the County Surveyor's Department at Preston, in connection with large-scale road and bridge schemes, drainage and sewerage work, soils mechanics and private street works.

The commencing salaries will be in accordance with qualifications and experience.

Applications, stating the Grade applied for, and quoting Ref. No. 123/12, names and addresses of two referees, and details of qualifications and experience, to be delivered to the COUNTY SURVEYOR, P.O. Box No. 9, County Hall, Preston.

MONTGOMERYSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING:

- Principal Assistant Engineers on Grades A.P.T. IV (£1,140-£1,310) and A.P.T. V (£1,310-£1,480), and Engineering Assistants on Grades A.P.T. II (£815-£960) and A.P.T. III (£960-£1,140), according to qualifications and experience.
- District Surveyor on Grade A.P.T. III (£960-£1,140).

Particulars and Forms of Application may be obtained from the undersigned.

P. E. WHITE, Clerk of the County Council.

County Offices, Welshpool.

August, 1961.

BOROUGH OF BEXLEY.

CLERK OF WORKS.

Salary £20 per week. The appointment is for approx. eight months.

Applicants will be required to supervise, under the direction of Consulting Engineers, MESSRS. LEMON AND BLIZZARD, the raising of the earthen embankment and the construction of a reinforced concrete spillway chamber, and ancillary works, at Danson Park lake.

Forms of Application and Conditions of Appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, to whom completed applications must be returned by MONDAY, 11th September, 1961.

Canvassing will disqualify.

ARTHUR GOLDFINCH, Town Clerk.

CITY OF OXFORD.

WATER DEPARTMENT.

ASSISTANT MAINS SUPERINTENDENT.

APPLICATIONS are invited for the ABOVE APPOINTMENT for the Oxford Area of Supply. The duties, under the Mains Superintendent, call for experience in maintaining, supervising and control of stores, plant and equipment and in the handling of men.

The post is permanent and pensionable. Medical examination required. Salary Grade Misc. VI (£760-£825 p.a.). Overtime payable.

Applications, on forms provided, to be received by the City Water Engineer, Denton House, Ilfley Turn, Oxford, not later than 5th SEPTEMBER, 1961.

HARRY PLOWMAN, Town Clerk.

Oxford.

WITHERNSEA URBAN DISTRICT COUNCIL.

APPLICATIONS are invited for the APPOINTMENT OF A CLERK OF WORKS for the completion of a £100,000 sewerage and sewage disposal scheme which is expected to last another five months. In all probability, the person appointed will be asked to continue as Clerk of Works to a coast protection scheme which is at present advertised.

Applications, with full details of experience, together with salary required, etc., should be submitted to the undersigned at the earliest possible date.

Further particulars may be obtained from the Consulting Engineers, MESSRS. JOHN H. HAISTE AND PARTNERS, 20 Wood Lane, Headingley, Leeds, 6, Telephone 54172.

(Signed) S. B. CLARKE, Clerk of the Council.

Municipal Buildings, WitherNSEA, Yorks.

12th August, 1961.

MANCHESTER CORPORATION.

RESIDENT ENGINEERS on the permanent staff REQUIRED to supervise the construction of roads and sewers on housing sites.

Salary A.P.T. III/IV (£960-£1,310). Housing accommodation and removal expenses. The position calls for surveys and assist in the design of flood prevention schemes, and applications are also invited for a JUNIOR ENGINEERING ASSISTANT to assist generally with the investigation.

All appointments are subject to the Provisions of the Superannuation Acts. Previous experience with a land drainage authority will be an advantage, but is not essential.

Applications, stating age, qualifications, training, experience, and previous appointments, should be sent to the Chief Engineer, West Sussex River Board, Chichester, not later than 9th SEPTEMBER, 1961.

T. C. HAYWARD, Clerk to the Board.

CONTRACTS MANAGER to undertake complete supervision of public works and housing contracts in Cheshire and North Wales area. The position calls for an individual with marked ability to carry contracts through from inception to completion, including preparing schedules, negotiations with clients, local authorities. Able to engage own staff and supervise all aspects of the company's projects in this area. There is every chance of the scope improving, with advantage to the successful applicant, providing a warranted salary commensurate with ability. Write Box V.4643, "The Contract Journal."

APPOINTMENTS VACANT

GENERAL FOREMAN REQUIRED to run building contract at Dartford. Permanent position in London area for man capable of organising contracts up to £200,000.—Applications in writing to C. J. SIMS, LTD., 2 Victoria Street, S.W.1.

SALESMAN REQUIRED for engineering company in Middlesex. This position offers excellent opportunities, and a good salary will be paid plus commission.—Apply in writing, giving full details of past experience, to Box V.4687, "The Contract Journal."

SITE CLERK REQUIRED for interesting contract work. Must be fully conversant with W.R.A., dockwork accounts and costing procedure. Permanency and promotion for right man.—Write, giving full details, to Box V.4678, "The Contract Journal."

WANTED

For motorway contract, experienced PLANT MANAGER. Must be conversant with modern plant, costing methods and labour control.

WRITE BOX V.4655, "THE CONTRACT JOURNAL."

SENIOR AREA AGENT REQUIRED to take charge of medium-size contracts in an area Berks./Bucks. Experience in control of several contracts collectable is the minimum experience required. Generous salary, car and pension scheme, and considerable scope for advancement in expanding organisation.—Write, giving full details of experience, age and salary required, to Box V.4651, "The Contract Journal."

SITE CLERK for contracts in London area. Permanent and pensionable for right man.—Write, stating age, experience, and salary required, to Secretary, FITZPATRICK AND SON (CONTRACTORS), LTD., 455 Old Ford Road, London, E.3.

SENIOR SURVEYOR. Progressive national building contractors have vacancy in their Midlands office for fully experienced Surveyor able to work on own initiative for large building contracts, valuations and final accounts, sub-contractors, etc. Previous proved record with a similar firm essential. The position will carry generous terms and conditions. All applications will be treated in confidence.—Write to Box V.4676, "The Contract Journal."

WELFARE AND LABOUR OFFICER. Applications are invited from men with a good education and possessing a pleasing personality, and trained, with national building and civil engineering contracts. Age range 26-36 years. Experienced in the recruitment of operatives for contracts, and dealing with their transfer between contracts, records and welfare work, and generally to assist the Personnel Manager. This is a permanent position, with prospects for the successful applicant.—WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

EARTHMOVING EQUIPMENT

(1) ASSISTANT HOMES SALES MANAGER

A large old-established company situated in Middlesex requires two experienced men for these important positions. Applicants for position (1) must have good knowledge of all earthmoving equipment, and proven experience of selling in this competitive field. Applicants for position (2) must also have good knowledge of earthmoving equipment and be able to attend to all the details of running a sales office, including the considerable correspondence involved. We are a progressive company with full staff benefits, including contributory pension scheme. Applicants with the above qualifications are invited to submit, in confidence, full details of their careers, including schooling, age, etc.—Please state clearly the position for which you feel yourself fitted, and address your applications, marking the envelopes "Earthmoving," to:

STOWE AND BOWDEN, LTD.,

7 Blenheim Street, New Bond Street, London, W.1.

SENIOR and JUNIOR SITE ENGINEERS REQUIRED

for building civil engineering contracts in London, Glasgow and the South of England. Must be experienced in the use of surveying instruments and controlling engineering staff and construction.—Applications, giving details of age, experience, and salary required, to the Chief Structural Engineer, TERSONS, LTD., Dollis Park, London, N.3.

SENIOR BUILDING ESTIMATOR. Permanent vacancy for fully trained Estimator for progressive national building and civil engineering contractor operating throughout the Midlands area. Previous experience with similar contractor, covering all types of building work up to about £1m. in value, and able to work on own initiative, and can show recent past successful results. Suitable terms and conditions will be offered the selected applicant. Strict confidence will be observed to all applications.—Write to Box V.4677, "The Contract Journal."

CIVIL ENGINEER.—Fully experienced Measuring Engineer REQUIRED for important contract near Edinburgh. Please state age, qualifications and experience. Salary range £1,200 to £1,500, depending on experience.—Written applications in confidence to Box V.4683, "The Contract Journal."

THE FULLERS' EARTH UNION, LTD.,

Redhill, Surrey. A member of the Laopore Group of Companies, REQUIRE A CIVIL ENGINEER with good academic background and experience in soil mechanics, to advise on and formulate plans for the development and sales of Bentonite products in civil engineering practice. The appointment is in a sector of considerable interest and potential. The duties will call for imaginative insight and practical experience of a responsible character, and will involve initiating and following up lines of enquiry from bench to field. An initial two-year contract at a substantial salary is visualised. Replies to this notice will be welcomed from those whose interest lies in the direction suggested, so that an interview to discuss the scope of the appointment may be arranged.—Applications should be made in the first instance, quoting Reference FEU/CJ/52, to:

Group Personnel Manager,

LAPORE INDUSTRIES, LTD., Hanover House, 14 Hanover Square, London, W.1.

SITE ENGINEER, with good prospects of rapid promotion to agent, REQUIRED for major road improvement scheme in Surrey. Quality control of work, measurements, setting out, etc. Youngish man preferred, but minimum of five years' experience with similar essential. Permanent employment in southern area offered to right man.—Write, with details of age, experience and salary, to NICHOLSON CONSTRUCTION CO., LTD., Freeland House, Cranleigh, Surrey.

APPOINTMENTS VACANT

WORKS MANAGER REQUIRED by contractors' plant hire company situated approx. 50 miles north of London. Successful applicant will take responsibility for repairs to all equipment and vehicles, including control of labour. Must be first-class organiser, good disciplinarian, and have previously acted in a similar capacity. Full knowledge of all civil engineering plant essential. References should be submitted. State age, salary, and give full details of previous appointments.—Write Box V.4667, "The Contract Journal."

GENERAL FOREMAN REQUIRED for reinforced concrete road construction contract. Top salary for man capable of working to a programme.—Write full particulars to Box V.4680, "The Contract Journal."

GANGER REQUIRED for road construction and surfacing of all types.—Write particulars to Box V.4681, "The Contract Journal."

CIVIL ENGINEERING
GENERAL FOREMAN

A position with prospects of promotion in a rapidly expanding company is offered to a suitable applicant who is prepared to take responsibility for all contracts. A commensurate salary will be paid, together with participation in bonus and pension schemes.—Write, with details, to:

BOX A.B.559, "THE CONTRACT JOURNAL."

EXPERIENCED BUILDING SURVEYOR REQUIRED (professional qualifications essential) in City Chartered Surveyor's office.—Write, stating age, experience, and salary required, to Box V.4679, "The Contract Journal."

ASSISTANT CIVIL ENGINEERS REQUIRED by an established company in Nigeria. Single men, preferably qualified, of sound health, character and intelligence, and with previous contract experience. Prospect of several tours with attractive leave periods on full pay, and all air passages paid. References required later.—Applications, giving details of education, training, age, and health, etc., to HARBOUR AND GENERAL WORKS, LTD., 173 St. Stephen's House, Victoria Embankment, Westminster, S.W.1.

FOREMAN—Good all-round civil engineering man REQUIRED for work in Nigeria with an established company. Preferably of single status, tradesman, under 45, of good health, character and intelligence. Experience and initiative essential. Prospect of several tours with attractive leave periods on full pay, and all air fares paid. References required later.—Applications in confidence, giving details of experience, previous posts, age, health, and domestic responsibilities, to HARBOUR AND GENERAL WORKS, LTD., 173 St. Stephen's House, Victoria Embankment, Westminster, S.W.1.

AGENTS

REQUIRED for heavy civil engineering foundation and large-scale reinforced concrete work. Previous experience of full contract control essential, with ability to organise and work within a specified programme. Excellent prospects are offered in a well-established and expanding organisation. We have a progressive staff policy operating superannuation and bonus schemes. Car provided.—For further details and application form, apply, in confidence, giving brief particulars, to:

M. T. Barwick, Director.
C. BRYANT AND SON, LTD.,
Whitmore Road, Small Heath, Birmingham, 10.

EXPERIENCED CIVIL ENGINEER REQUIRED in civil engineering contractors' London office. Duties include tendering, planning, and assisting in the control of contracts. Most of the work will be concerned with major civil engineering works abroad, and some travel may well be involved.—Write Box V.4409, "The Contract Journal."

ENGINEER/AGENT for supervision of civil engineering contracts. Applicants should be experienced contractors' men aged 35-45, with sound knowledge of conditions of contract and quantities. Salary £1,450/£1,600; pension scheme.—Write Box V.4671, "The Contract Journal."

REINFORCED CONCRETE ENGINEER, with experience of frame construction and quality control, REQUIRED by national firm of contractors, for construction site on West Coast of Scotland. Excellent prospects for advancement to Agent status on future contracts for man of initiative.—Write, stating age, experience, and salary required, to THE MITCHELL CONSTRUCTION CO., LTD., New Office Block, Ardeer, Stevenston, Ayrshire.

APPLICATIONS are invited from GENERAL FOREMEN for new contracts and large construction works in the London area. Interesting and high-class work. The successful applicants offer excellent opportunities for advancement, with participation in staff bonus and Pension schemes.—Please send full details in confidence to Box No. G.F.5505, A.K. Advertising, Ltd., 212a Shaftesbury Avenue, W.C.2.

CIVIL ENGINEER

REQUIRED for certificate and planning duties on large overseas civil engineering project. Applicants must have wide experience of large-scale projects with contractors.—Write full particulars of career to:

BOX V.4682, "THE CONTRACT JOURNAL."

REINFORCED CONCRETE DESIGNER urgently REQUIRED, due to staff promotions, for interesting work involving design, detailing and site supervision of reinforced concrete floors and other structures. Graduate Structural Engineer with at least two years' experience preferred. Minimum qualification H.N.C. Good salary, five-day week, pension scheme, and free life assurance.—Apply, stating age, experience, and present salary, to SAMUEL TZACK AND CO., LTD., Fulwell Road, Sunderland.

SENIOR ENGINEER REQUIRED for large multi-storey building contract in London. Preferably A.M.I.C.E. or engineering degree required. Good salary and prospects.—Send full details of experience and other relevant information to Personnel Officer, M. J. GLESON (CONTRACTORS), LTD., Hareton House, London Road, North Cheam, Surrey, quoting reference SE/F/1.

SITE AGENT REQUIRED immediately for completion of sewage works contract at Aldershot, Hants. Approx. 12 months' work.—Applications, stating experience, and salary required, should be sent to RILEY AND WHISHAW, LTD., Haslemere, Surrey.

APPOINTMENTS VACANT

CLASSIFIED ADVERTISEMENT

RATES:

Classification	First Four Lines or Less	Each Additional Line
APPOINTMENTS VACANT	12/-	2/6
APPOINTMENTS WANTED	7/6	1/6
WORK REQUIRED, BUSINESS OPPORTUNITIES, BUSINESSES FOR SALE, DIVING, FINANCE, PROFESSIONAL SERVICES, AGENCIES, HORTICULTURAL PROPERTY, SALE BY AUCTION, PLANT AND MISCELLANEOUS	14/-	3/-

BOX NO. 1/- EXTRA.

AGENT WANTED for concrete piled sea outfall in South Wales. The appointment will be a permanent one, and offers excellent prospects to a keen young Engineer with some previous experience of piling work.—Write in confidence to Box V.4612, "The Contract Journal."

CIVIL ENGINEERING—Contractors' Staff Requirements. Applications are invited for the following permanent staff appointments: **AGENTS**—experienced in heavy civil engineering construction, and preferably with experience in construction of large-diameter sewers in open-cut, heading and tunnel; **ENGINEERS**—for site duties on various contracts. Applicants should have experience of setting-out and measuring-up for contract records; **ESTIMATORS** at head office—for preparation of tenders for all types of civil engineering works. Previous estimating experience essential, site knowledge desirable; **QUANTITY SURVEYORS** at head office—for preparation of Interim and final accounts. Applicants should have contracting experience in civil engineering. Knowledge of road surfacing additional advantage. Usual pension and life assurance scheme, and other appropriate benefits. Good salaries offered, according to competence and experience. Replies, in strict confidence, personal to S. Averill Gothard, B.Sc., M.I.C.E., Director, WILLIAM F. REES, LTD., 54 Victoria Street, London, S.W.1.

CIVIL ENGINEERS (Assistant) REQUIRED for major project just commencing in Dunbartonshire and affording scope for wide variety of experience.—Write details of age, experience, and present salary to R. F. Emerton, Agent, JOHN HOWARD AND CO., LTD., Glen Douglas, Alexandria, Dunbartonshire.

THE NATIONAL SALT GLAZED PIPE
MANUFACTURERS' ASSOCIATION

Proposes to appoint a **SALES ENGINEER** to aid designers and constructors of drains and sewers in the better and shorter employment of glazed and vitrified clay pipes. The Sales Engineer will be resident in or near Derby, and will usually work in Lancashire and Yorkshire and North Midlands. The following minimum qualifications are required: (a) Associate Membership of the Institution of Civil Engineers, or Associate Membership of the Institution of Municipal Engineers, or Membership of the Institution of Public Health Engineers; (b) experience in controlling sewerage and drainage contracts; (c) an up-to-date knowledge of the design of sewerage and drainage schemes, particularly with regard to structural, hydraulic and chemical resistance requirements. Knowledge of pipe making and marketing would be an advantage. Age preferred 30-40. The minimum salary offered is £1,750 per annum, or more according to experience. Applications, which will be treated in strict confidence, should be addressed to:

The Secretary,
THE NATIONAL SALT GLAZED PIPE
MANUFACTURERS' ASSOCIATION,
Hanover Court, Hanover Square, London, W.1.

ESTIMATOR REQUIRED for building and civil engineering contractors with head office situated in Surrey. Contracts £50,000 to £500,000.—Write, stating age, experience, and salary required, to Box 1066, c/o Murray and Phelan, Ltd., Columbia House, Aldwych, W.C.2.

ASSISTANT CIVIL ENGINEERS REQUIRED in various parts of England and Wales. Good opportunities for experience on marine and industrial contracts.—Apply in writing to THE DEMOLITION AND CONSTRUCTION CO., LTD., 3 St. James's Square, S.W.1.

RESIDENT ENGINEER REQUIRED to supervise the construction of a large reinforced concrete reservoir in the North West of England. The approximate duration of the contract is 18 months. Applicants should have had experience in a similar capacity and similar works. Salary will be £1,500 p.a. plus a suitable disturbance allowance. The closing date for applications is Tuesday, 9th August. Suitable applicants will be notified of a date for interview.—Write Box V.4711, "The Contract Journal."

ARCHITECTURAL DRAUGHTSMAN—Competent Architectural Draughtsman REQUIRED by construction company, North Liverpool area. Minimum four years' experience. Duties principally in connection with housing. Good salary, superannuation scheme and bonus.—Please apply, in writing, with full details, to Box No. L.131, Lee and Nightingale, Liverpool, 2.

SALES MANAGER

The INCHGREEN ENGINEERING CO., LTD., of Greenock, REQUIRE **SALES MANAGER** to develop policy and organisation for the sale of industrial tractor equipment—loaders and diggers. Candidates should be between the ages of 30 and 45, and preferably have previous experience in that field. Applications, giving details of age, training, qualifications and experience, should be addressed to:

The Managing Director,
THE INCHGREEN ENGINEERING CO., LTD.,
Greenock, Renfrewshire.

GENERAL FOREMEN REQUIRED for bridgeworks on motorways. Must have wide experience in reinforced and prestressed concrete construction. Apply in writing, with full details of experience, to CHRISTIANI AND NIELSEN, LTD., Romney House, Tuford Street, S.W.1.

APPOINTMENTS VACANT

SALES MANAGER WANTED. We can offer a really progressive position in the Southern Counties for an energetic person who has the drive and determination to produce good results. Naturally, all applications will be treated in the strictest confidence.—GREENHAM EQUIPMENTS, LTD., Clayton Road, Ruislip Road, Greenford, Middlesex.

EXPERIENCED CONTRACTORS' AGENT REQUIRED immediately for reconstruction in reinforced concrete of a dry dock on Tyneside. Apply in confidence to Chief Engineer, BRIMS AND CO., LTD., Pandon Buildings, Newcastle-upon-Tyne.

SERVICE MANAGER (Tractor and Equipment Division). Service Manager REQUIRED now by internationally known British company for its associate company in East Africa. The company is the largest importer into Kenya, Uganda and Tanganyika of contractors' plant, including the world's best-known line of earthmovers; it has fully established engineering workshops and field service organisations based throughout the Territories. The appointment is an important one requiring both technical and managerial skills, and the candidate selected will be responsible for the adequacy, efficiency and profitability of the whole service organisation. Aged 30-40 years. Salary around £2,400, but dependent on qualifications and experience. Pension fund. Tours of two or four years at employees' option, with paid leave.—Apply at once, stating age, qualifications and experience, to Box V.4707, "The Contract Journal."

DUNCAN LOGAN (CONTRACTORS), LTD.—SUB-AGENTS AND ASSISTANT CIVIL ENGINEERS REQUIRED for contract sites in the Edinburgh and Glasgow areas. Permanent and progressive posts. Applications (in confidence), stating age, full details of experience and qualifications, etc., to Duncan Logan (Contractors), Ltd., Great North Road, Muir of Ord, Ross-shire.

BUILDING STAFF

The following permanent progressive appointments are available to persons with the necessary qualifications and who are awaiting the opportunity of joining a firm where their skill and capacity will be well rewarded.—

SITE AGENT
With previous experience of concrete framed structures and knowledgeable of handling and organising all trades.

QUANTITY SURVEYOR
With previous experience of measuring all trades in contracts value £250,000. Must be able to negotiate with opposite number and be capable of arranging and agreeing final accounts.

BUILDING ESTIMATOR
Previous experience of building up estimates for all types of construction.

CIVIL ENGINEERING ESTIMATOR
Previous experience on sites as engineer and/or agent, together with the necessary aptitude for estimating. Only persons with previous experience in similar appointments and with the necessary qualifications will be considered.—Please write in the first instance, with full particulars, to:

General Manager (Northern Area),
RICHARD COSTAIN (CONSTRUCTION), LTD.,
2A Marton Road, Middlesbrough.

JUNIOR ENGINEERS, age about 25, REQUIRED by well-known and rapidly expanding company engaged in bridge, sewerage, tunnel, heavy foundation and such works. Excellent experience offered. Good salary and pension scheme. Details of experience and qualifications required.—Write to Box V.4694, "The Contract Journal."

WELL-KNOWN civil engineering contractor REQUIRES SENIOR ENGINEERS over 25 years for appointments in the Midlands and Home Counties. Applicants must have good general duties experience, and able to take charge. The positions offer excellent opportunities and will become permanent. First-class salaries, with pension scheme. Details of experience and qualifications should accompany applications. Write Box V.4695, "The Contract Journal."

GENERAL FOREMAN REQUIRED for extensive civil engineering contract in Camberley, Surrey. 18-month contract in first instance with possibility for the right man. Top salary and conditions offered. Apply in writing, in the first instance, to R. G. HORTON (ENGINEERS), LTD., Sinnott Road, Walthamstow, London, E.17.

YOUNG SITE ENGINEER, to assist in setting-out, urgently REQUIRED for a contract in the Salisbury area. Ability to use instruments essential. Progressive position for suitable candidate.—Apply, giving details of experience, age, salary required, etc., to Personnel Manager, MILES BROS. (CONTRACTORS), LTD., 154/8 Sydenham Road, S.E.26.

AGENTS AND GENERAL FOREMEN

CARLTON CONTRACTORS, LTD. REQUIRE AGENTS AND GENERAL FOREMEN to fill vacancies in their expanding general construction division. Work will be concentrated in the Surrey area. Applicants should be aged 35-45, and have been general foremen or assistant general foremen engaged in general construction work for a number of years. Good salaries are offered, and after a qualifying period applicants would be eligible to participate in the company's pension scheme.—Applications, in writing, should state age, experience, qualifications and salary required, and be addressed to:

Reference GC/CGA.
CARLTON CONTRACTORS, LTD.,
Carlton House, Ashley Road, Epsom, Surrey.

CASE IS ON THE MOVE—Owing to expanding business, Case Distributors for Wales and North-western England require an eager, ambitious SALESMAN to cover Glamorgan. The successful applicant will be in the 26-36 age group and have had several years' experience in the selling side of earthmoving business. He must have sufficient personality to deal at a high level, sound education, and be a team player. The appointment carries a four-figure salary, a non-contributory pension scheme, a car, and offers scope for promotion.—Apply in own handwriting to General Sales and Service Manager, WM. LEWIS TRACTORS, LTD., Newport Road, Cardiff. All replies will be treated in the strictest confidence.

CONCRETE CONTROL ENGINEER REQUIRED by contractor for major bridge foundation project in S.W. England.—Write Box C1738 L.P.E., 60/62 St. Martin's Lane, W.C.2.

BUYER WANTED by medium-sized building and civil engineering contractors with head office in Surrey. Must be fully conversant with bills of quantities, and able to take off quantities from drawings.—Write, stating age, experience, and salary required, to Box 1067, c/o Murray and Phelan, Ltd., Columbia House, Aldwych, W.C.2.

APPOINTMENTS VACANT

OPPORTUNITY for a CIVIL ENGINEERING AGENT with COSTAIN. For this appointment, RICHARD COSTAIN, LTD., invite applications from Civil Engineers who have had experience of site control of civil engineering contracts. We are particularly interested in men of 30 to 40 who are capable of applying modern methods of control and construction. The man chosen will have opportunities for service overseas and for advancement generally, enabling him to become a Contracts Manager in a few years. A salary of not less than £1,750 p.a. is envisaged, plus a means bonus scheme and subsistence allowances where applicable.—Write or phone for an interview: The Personnel Manager, 111 Westminster Bridge Road, S.E.1. Phone: WATERLOO 4977.

GENERAL FOREMAN, experienced reinforced concrete construction foundations, REQUIRED. Large contract, Northern England.—Write, with full particulars, to Box V.4715, "The Contract Journal."

PLANT SUPERVISOR REQUIRED, with thorough knowledge of building and civil engineering plant. Staff positions.—Apply in writing: Plant Dept., HOLLAND & HANSEN AND CUBITS (GREAT BRITAIN), LTD., Thorney Lane, Iwer, Bucks.

AGENTS

REQUIRED by HUMPHREYS, LTD., for civil engineering contracts. Previous experience in control of contracts essential, preferably in connection with sewerage, bridge or harbour works.—Apply to:

Personnel Department,
HUMPHREYS, LTD.,
199 Knightsbridge, S.W.7.

OLMIT, LTD., REQUIRE PRECAST REINFORCED CONCRETE DETAILERS AND DESIGNERS. This rapidly expanding company offers excellent prospects of a rewarding career to suitable candidates. Salary depending upon age and experience.—Applications in writing to Contracts Director, Vicarage Road, Egham, Surrey.

TAYLOR WOODROW (OVERSEAS), LTD., REQUIRE PROJECT MANAGER. Applications are invited for the position of Project Manager on a large and interesting building contract overseas. This is a senior appointment, with very real opportunities for advancement and promotion. Salary, according to qualifications and experience, will be between £2,500 and £3,000 p.a., with free fully furnished married accommodation and generous leave on full salary.—Applications, which will be treated in strict confidence, should be addressed to the Managing Director, Taylor Woodrow (Overseas), Ltd., Western House, Western Avenue, Ealing, W.5.

ENGINEER/SUB-AGENT REQUIRED for extensive road construction scheme in Wester Ross. Must be experienced in all aspects of setting-out, recording measurements and site administration. The position is permanent, with excellent opportunities for advancement in an expanding department.—Write in confidence, giving details of age, experience, and salary required, to the Manager, Civil Engineering, THE LIMER AND LAKE ASPHALT CO., LTD., 4 Woodside Place, Glasgow, C.3.

A LEADING GROUP OF BUILDING AND CIVIL ENGINEERING CONTRACTORS

Invite applications from **SITE ENGINEERS.** Initially, the appointments will be on large structural engineering contracts in South West England, and offer excellent scope for advancement in a rapidly developing section of the group's activities.—Please send full details of age, experience and qualifications to:

Box A.1.5471,
A.K. ADVERTISING, LTD.,
212A Shaftesbury Avenue, W.C.2.

SITE ENGINEERS, with some experience, REQUIRED immediately for civil engineering contracts in East Anglia. Permanent position with superannuation scheme available for suitable applicants.—Details and salary required to DEREK CROUCH (CONTRACTORS), LTD., Eye, Peterborough.

ASSISTANT REQUIRED for Civil Engineer's office, for general duties which will include tendering, planning, preparation of interim and final accounts, extra works and variation orders. Some knowledge of costing an advantage.—Apply in writing, giving brief details of experience, age, and salary required, to the Managing Director, J. A. STIRLING, LTD., Frerherne Chambers, Welwyn Garden City, Herts.

APPLICATIONS

Are invited by leading London building and civil engineering contractors from **AGENTS, SITE ENGINEERS, SECTION FOREMEN,** with experience of large civil engineering works.—The positions are permanent and pensionable, with excellent scope for advancement. Please send full details, in confidence, to:

Box A.1.5477,
A.K. ADVERTISING, LTD.,
212A Shaftesbury Avenue, W.C.2.

EXPERIENCED SITE ENGINEERS REQUIRED for the permanent staff of old-established civil engineering contractors. Applicants must be fully mobile and will be required to work on various contracts, mainly in the southern half of England.—Applications, giving full details, to Contracts Manager, A. JACKMAN AND SON, LTD., 9 Bath Road, Slough, Bucks.

SENIOR COST CLERK IS REQUIRED for new civil engineering department based on Falmouth and operating in the West Country. Applicants should have experience in civil engineering costing, preparation of certificates.—Apply in writing, stating age, qualifications, and training, to GRAY, CONOLEY AND CO., LTD., Civil Engineering Dept., The Docks, Falmouth.

APPLICATIONS are invited from **ELECTRICAL ENGINEERS** for the supervision of major cable installation work in various parts of the country. Applicants must have wide experience in all types of HT distribution work, particularly the laying of cables underground, and be able to inspect and assess fully cable routes and subsoil conditions likely to be encountered.—Please reply, stating age, experience and qualifications, together with three references, and salary required, to EDWARD A. PITCHER AND PARTNERS, 58-60 Cannon Street, E.C.4.

ORDER AND DISPATCH CLERK REQUIRED. Knowledge of concrete and uses would be an advantage, but not essential. Age 25-45. Apply Manager, FAIRLOP READY MIXED CONCRETE CO., LTD., Hainault 5665.

APPOINTMENTS VACANT

SUB-AGENT/ENGINEER REQUIRED by old-established firm of civil engineering contractors. Applicants must be fully mobile, with a wide experience of contracting, and able to accept responsibility in overall planning and organising contracts. Attractive conditions are offered, with scope for advancement. Applications, giving full details, to Contracts Manager, A. JACKMAN AND SON, LTD., 9 Bath Road, Slough, Bucks.

CIVIL ENGINEERING ESTIMATOR. An experienced Estimator is REQUIRED for new civil engineering department based on Falmouth and operating in the West Country. Applicants should have experience of tendering for all types of civil engineering construction; site experience desirable.—Apply in writing, stating age, qualifications, training and experience, to GRAY, CONOLEY AND CO., LTD., Civil Engineering Department, The Docks, Falmouth.

For Advertisements received too late for classification see page 925

APPOINTMENTS WANTED

ENGINEER, experienced in motorways, sewerage schemes and disposal works, SEEKS EMPLOYMENT as AGENT, SUB-AGENT or ENGINEER.—Write Box W.4658, "The Contract Journal."

ASPHALT CONTRACTS MANAGER, 25 years' experience, SEEKS POST where initiative and ability will be rewarded.—Write Box W.4713, "The Contract Journal."

CONTRACTS MANAGER/ESTIMATOR (46) DESIRES PROGRESSIVE POST. Wide experience, main drainage, roadworks, reinforced concrete structures, piling, heavy excavations, etc.—Please write Box W.4724, "The Contract Journal."

CONTRACTS MANAGER, civil engineering and building, SEEKS EARLY APPOINTMENT with established company. Vast experience, drive, personality and top-level negotiator. Can control all departments from inquiries to final, highest references.—Write Box W.4722, "The Contract Journal."

AGENT/GENERAL FOREMAN, now free, experienced in most branches of civil engineering, particularly sewerage, concrete structures, bridges. Levelling, setting out, measurement, etc. Will assist small company if required, or take over an existing contract going slow. All inquiries answered promptly without fail. Anywhere in British Isles, entirely mobile.—Write Box W.4721, "The Contract Journal."

ENGINEER, with wide general experience in mechanical, chemical and civil engineering, who has spent the last seven years on bored piling work, SEEKS SENIOR POST with progressive organisation, where his administrative and organising abilities can be fully utilised.—Write Box W.4725, "The Contract Journal."

CHIEF BUYER (47) DESIRES CHANGE, 30 years' civil engineering and building industry, handling plant, equipment, materials, sub-contracts. Experienced commercial management, budgetary control, costing, personnel.—Write Box W.4726, "The Contract Journal."

WORK REQUIRED

WANTED, HIRE OR CONTRACT WORK for modern fleet of Caterpillar 631 Motor Scrapers, D9s, D8s, 15 cu. yd. Rear Dump Euclids and 38RB Face-shovel.—Apply: BRODERICK AND RYAN, LTD., 421 Nottingham Road, Derby, Tel. 4381/2/3.

HIGHWAY CONTRACTORS, LTD., invite inquiries for large or small EARTHMOVING CONTRACTS. Direct or sub-contracts undertaken. Specialists in Roadbuilding, Playing Fields and Site Excavation with modern fleet of Caterpillar 631s, D9s, D8s, D7s, Traxcavator 977s, 955s, 933s, Euclid TS14s, and Ruston Excavators.—Contact Head Office: HIGHWAY CONTRACTORS, LTD., 146A Bath Street, Ilkeston, Derby, or phone Ilkeston 4376/7.

BULK EARTHMOVING, direct contract or sub-contract. Also BULDOZERS and SCRAPERS for HIRE.—FRANK R. WALPOLE, LTD., 126 Wing Road, Leighton Buzzard, Beds. Leighton Buzzard 3351.

TARMAC, DAM AND TARSPLAYING.—Tennis Courts, Estate Roads and Footpaths. Direct contracts or sub-contracts. Distance no object. All work guaranteed.—PENFOLDS, Hinds Yard, Maidenhead, Berks.

SOILING, SEEDING AND TURFING. Site Clearance, Excavation and Levelling Work undertaken in any part of the U.K. at competitive prices.—GILLIAM, Purley, Uplands 922/6.

BULK EARTHMOVING, OVERBURDEN STRIPPING, EXCAVATIONS for roads, airfields, etc. with Euclid TS24 Motorised Scrapers and Caterpillar D8 Tractors and Scrapers able to undertake work anywhere in the country.—PLANT available for HIRE. **CONTRACTORS PLANT HIRING CO., LTD.,** Barkby Road, Leicester. Leicester 6631—4 lines. Also Portland Chambers, 120/126 Portland Street, Manchester, 1. Telephone: Manchester Central 4822.

EXPLOSIVES.—I. STOREY AND CO., LTD., Specialists in the use of Explosives for Demolition Work and the Fragmentation of Mass Concrete or Slag. Drilling or Drilling and Blasting Sub-contracts carried out in Quarries and Civil Engineering Projects. Inquiries to: Ripley Old Colliery, Ripley, Derbyshire. Telephone: Ripley, Derbyshire, 776.

DROTT BTD6, fitted Winch and Priestman Cub V8. HIRE OR CONTRACT WORK.—JAMES COOPER, LTD., 28 Kensington Church Street, London, W.8. Western 3412.

OVERSITE PREPARATION AND COMPACTION WITH MODERN MACHINES.—Write or phone: SAM BOOTH, LTD., 75 Victoria Street, London. Telephone: Sullivan 3791 and Haywards Heath 1126.

BULK EXCAVATIONS, any quantity quoted for. Own plant and lorries.—COFF AND SON (EXCAVATIONS), LTD., Buckhurst Hill, Chesham, Ascot, Berks. Ascot 1026/7/8.

ERECTION AND DISMANTLING.—Structural Steelwork and all types of Prefabricated Components. Speedy and efficient service.—ERECTORS, 80 Bulwell Crescent, Chesham, Herts. Waltham Cross 22564.

SITE CLEARANCE, EXCAVATIONS, ROADS, 147 Rushey Green, Catford, S.E.6. Hither Green 8667.

WANTED, EXCAVATION, SITE CLEARANCE and DEMOLITION WORK.

R. BARKER (PECKHAM), LTD., New Cross 3337.

SITE CLEARANCE CO., LTD., specialise in removal of trees and roots. Explosion Engineers and Demolition Contractors.—Denny Quays Lane, Appleton, Warrington. Telephone: Stockton Heath 309.

WORK REQUIRED

SITE CLEARANCE, BULK EXCAVATION. JAMES AND CO., LTD., Trading Estate, Slough. Telephone: Slough 20361—Ext. 4.

CONTROLLED EXPLOSIVES, LTD., specialise in the fragmentation of mass and reinforced concrete. Inside or outside buildings. Demolition of bridges and chimneys, mass rock, trenching, sewage beds, engine beds, etc. and deep drilling for quarries. Particulars from 11 Church Street, Oldbury, Birmingham. Tel: BROADWELL 3117, Blackheath 1996 & 1783.

BULK EXCAVATIONS and SITE WORKS undertaken. Direct or on SUB-CONTRACT basis. Quotations given for large or small contracts anywhere.—S. AND L. BULL BROS., LTD., 126A High Street, Winchester. Telephone: Winchester 2264.

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IF GRADING, SEEDING, TURFING and PLANTING form part of your CONTRACT, we will be pleased to quote you.—HOLDUP, 139 Bells Hill, Barnet. Telephone 9111.

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BUILDERS' ESTIMATES, etc.—My office will be closed for holidays from Friday, 18th August until Monday, 4th September, 1961.—C. D. HIGGINS, 2 Parva Crescent, Leeds, 9. Telephone 662117.

CONSULTANT will undertake on fee basis REPORTS to MANAGERS, INVESTIGATIONS, APPRAISALS and EXAMINATIONS on individual contracts or entire organisations. Inquiries in confidence.—"FORWARD," 345 Queens Road, Maidstone, Kent.

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SALES BY TENDER

ADMIRALTY.

SALE OF GOVERNMENT SURPLUS STORES.

TENDERS are invited for the PURCHASE, including dismantling and Removal, of the FOLLOWING BUILDINGS, etc.:

- (1) 74 Nissen Type Huts, 16ft., 24ft. and 35ft. span, 18ft. to 96ft. long.
- 13 Timber Poles, average height 25ft., average girth at base 27in., complete with Wires and Fittings.
- All lying at R.N. W/T Station, Camp No. 2, Inskip, near Preston, Lancs.
- (2) Seven Timber Huts, ranging from 80 sq. ft. to 600 sq. ft.
- All lying at Admiralty Navy Works Depot, Risley, near Warrington, Lancs.

Applications for tender documents (stating whether required for (1) or (2) or both) to be made to the SUPERINTENDENT, Western Navy Works Department, 7th Floor, Royal Liver Building, Liverpool, not later than 8th SEPTEMBER, 1961.

ARGYLL COUNTY COUNCIL.

CONTRACTORS' PLANT.

The County Council invite OFFERS for CONTRACTORS' PLANT, which may be inspected by appointment with the County Engineer, Lochgilphead, Argyll. The main items offered for sale are as follows:—

- Barber-Greene Junior Spreader (little used).
- D4 Dozer.
- Winget Cement Mixer, 10/7, with Weighbatter.
- Broomwade Compressor.
- Atlas Compressor.
- 15cwt. Dumper.
- Greene Vibrating Roller.
- Ruston-Bucyrus (15BA) Face Shovel.
- 7-ton Bedford Lorry.
- Mobile Workshop.
- Sitemaster Office.
- Miscellaneous Pumps, Drills, Breakers, Tools, etc.

No guarantee is given as to the condition of the plant and equipment. Offerers must satisfy themselves as to its mechanical condition.

A complete list of the plant and tools available may be obtained from the County Engineer.

Offers should be sent to the undersigned, in an envelope endorsed "Contractors' Plant," before 9th SEPTEMBER, 1961.

County Offices, Lochgilphead, 17th August, 1961.

COUNTY BOROUGH OF DARLINGTON.

SALE OF LANCASHIRE BOILER.

TENDERS are invited for the DEMOLITION and REMOVAL of One LANCASHIRE BOILER, 7ft. 6in. dia. and 30ft. long, from "East Haven," Yarm Road, Darlington. Tenders will include for the removal of all debris and sundry reinstatement of the boiler house. Forms of Tender and details obtainable from BOROUGH SURVEYOR, Town Hall, Darlington. Closing date for receipt of Tender Forms, 12 Noon on WEDNESDAY, 6th September, 1961.

BOROUGH OF RUGBY.

For SALE, 1945 2½-ton Aveling-Barford FOOT-PATH ROLLER. Can be seen at Corporation Depot, Drury Lane. Particulars and Tender Forms from BOROUGH SURVEYOR, Town Hall, Rugby.

COVENTRY CORPORATION.

WATER UNDERTAKING.

Allen Super 25 TRENCHER, Dorman Diesel Engine, c/w Cutter Bars. In working order. View Waverley Road, Depot, Coventry, 9 a.m.-4 p.m. (not week-end).

Offers, in sealed envelope bearing no indication of sender, endorsed "Tender for Plant," to WATER ENGINEER, Waverley Road, Coventry, by 6th SEPTEMBER, 1961.

SALES BY TENDER FRINTON AND WALTON URBAN DISTRICT COUNCIL.

SALE OF OLD STREET LIGHTING INSTALLATIONS.

Persons interested in the PURCHASE of old STREET LIGHTING INSTALLATIONS should contact the Engineer and Surveyor, The Council House, Old Road, Frinton-on-Sea, where a schedule of the available equipment may be examined.

Any offers which may be made should be received by the undersigned not later than MONDAY, 11th September, 1961.

J. P. McLARNEY,

Clerk of the Council.

RURAL DISTRICT COUNCIL OF DEBEN.

DISPOSAL OF REDUNDANT HUTTED HOUSING ACCOMMODATION, AT CORDY'S CAMP, TRIMLEY ST. MARY, NEAR FELIXSTOWE.

TENDERS are invited for the PURCHASE and REMOVAL of the FOLLOWING HUTS:—

- 10 Single Units of Accommodation—timber-framed structures.
- Five Double Units of Accommodation—timber-framed structures.
- One Double Unit of Accommodation—concrete-framed structure.
- One Nissen Store Shed.

Full particulars can be obtained from the Council's Engineer and Surveyor, together with Tender Form and Conditions of Contract.

Sealed Tenders, endorsed "Redundant Huts," to be delivered to the undersigned not later than 9 a.m. on WEDNESDAY, 13th September, 1961.

The Council does not bind itself to accept the highest or any Tender.

T. D. HOCKINGS,

Clerk of the Council.

Council Offices, Melton Hill, Woodbridge, Suffolk.

TRENT RIVER BOARD.

FOR SALE.

The Board offers for SALE:—

- (a) Six Muir-Hill Model 10B Diesel Dumpers, purchased new in 1950, together with Spare Parts.
- (b) Two Ransomes and Rapier Type 4120 Excavators, fitted with Dragline Buckets. Purchased new in 1948.
- (c) Two Priestman Wolf Type Excavators, fitted with Dragline Buckets. Purchased new in 1950.

Inquiries to the Engineer, TRENT RIVER BOARD, 206 Derby Road, Nottingham, not later than 2nd SEPTEMBER, 1961.

SALE BY AUCTION

SHIRLAW, ALLAN AND CO.,

AUCTIONEERS, HAMILTON.

IMPORTANT SALE OF STONE CRUSHING, SCREENING AND CONVEYING PLANT, TARMAC-ADAM PLANT, EXCAVATORS, LOADING SHOVELS, DUMP TRUCKS AND DUMPERS, AIR COMPRESSORS, ELECTRIC MOTORS AND SWITCHGEAR, STEEL STRUCTURES, SECTIONAL WOODEN ERECTIONS, LORRY WEIGHTING EQUIPMENT, GARAGE, FURNITURE, PLANT SPARES, MOTOR VEHICLES, OFFICE FURNITURE, ABOUT 23 ACRES LAND, ETC.,

including 24in. x 24in. x 12in. and 20in. x 12in. Stone Breakers; Two Marsden 32in. x 6in. and 24in. x 6in. Roller-bearing Stone Granulators; Two Kennedy Nos. 195 and 196 Gyrovac Stone Crushers; New Spares for Kennedy Crushers; Baxter Breakers and Marsden Granulators; Four Kennedy and Marsden Three-deck Vibrating Screens; 12in. x 10ft. x 3ft. and 6ft. x 3ft.; 32 New Screen Plates; Seven Mavor and Coulson 24in. and 18in. Troughed Belt Conveyors; from 100ft. long; 125 New Idlers for Mavor and Coulson Conveyors; Parker 42in. x 72in. Type FS Plate Apron Feeder; 8-compartment Steel-built Storage Hopper, 40ft. x 12ft. x 22ft. deep; Two Steel and Wooden Storage Hoppers, 18ft. x 10ft. x 10ft. and 19ft. x 7ft. x 11ft. deep; Millars Oil-fired Tarmacadam and Asphalt Plant, capacity 10 tons per hour; Goodwin-Gibby 5yd. 40-hp. 20 A.C. Tarmacadam Mixer and Portable Stone Dryer, 16ft. x 3ft.; Unused 3,000-gallon Bristowes Taskmaster Oil-fired Tar Boiler; Five Portable Tar Boilers, 1.33-gallon capacity; 20 A.C. 20 A.C. 3-phase Slip Ring and Squirrel Cage Motors, from 52½-h.p., with Ellison Starting Gear; Two 16.5-kVA B.I. Transformer; 200-kVA English Electric Transformer, P.V. 11,000/6,600 S.V. 440; Three Distribution Switchboards; Large Quantity Power Cable; Two Blackstone 45-h.p. and Ruston and Hornsby 4VSH Portable Diesel Engines; 20 A.C. 20 A.C. 15-ton and 15-ton Beam Lorry Weighbridges; Two Connell Explosives Magazines; Steel Structures; 10 Sectional Wooden Erections from 60ft. x 15ft.; Nissen Huts, 35ft. x 16ft.; Three 198B Diesel Excavators, with Forward Shovel Equipments; Large Number New 198B Excavator Spares; International B6K3 Drott Skid Shovel (new 1959); Two Muir-Hill 2WL Diesel Hydraulic Loading Shovels (new 1959 and 1960); Two Muir-Hill 14B and 10B Diesel Dumpers; Two A.E.C. 10yd. and 6/7yd. Dumptrucks (new 1958 and 1957); Flat 55LI Diesel Crawler Tractor, with Hydraulic Angledozer; Broomwade SVD2 Portable Diesel driven Air Compressor, capacity 167 c.f.m.; Two Broomwade and Ingersoll-Rand Portable Petrol driven Air Compressors, capacity 110 and 105 c.f.m.; Stothert and Pitt 28in. Vibrol Tandem Road Roller; 5/3½ Model Concrete Mixer; Limer Portasaw Size 4 Portable Petrol driven Circular Saw Bench; Quas-Arc 24-kVA Portable Electric Welding Transformer; H.E.C. Portable Petrol driven Garage Air Compressor; Davenset Model B Battery Charger; E.P.C. 7½-ton Hydraulic Trolley Jack; 2in. Portable Electric Drill; Oxy-Acetylene Welding and Cutting Kits; Welding Electrodes; Engineers' and Quarry Tools; Austin A35 Delivery Van (new Oct., 1960); Austin A70 Pick-up Truck; Goodwin Petrol Pump (new 1960); Six Fuel Storage Tanks, from 1,500 gallons capacity; Chain Lifting Blocks; 24 Dumper and Tractor Wheels, Tyres and Tubes; Large Quantity Oil and Grease; Seven Rock Drills and Paving Breakers; Air Hoses; Rock Drill Steels; Typewriter; Olivetti Adding Machine (new 1960); Two Steel Filing Cabinets; Oak Flat Top Desk, etc.; also about 23 acres of Land containing quantity Whitestone.

At GARAGE, BELKNOWES FARM, INVERKEITHING, PITADRO QUARRY, CROSSGATES ROAD, INVERKEITHING, and FAIRY QUARRY ROSVYTH, FIFE, on TUESDAY, 5th SEPTEMBER, 1961. Beginning at Belknowes Farm at 10.30 a.m. prompt.

SHIRLAW, ALLAN AND CO.,

AUCTIONEERS, HAMILTON.

have received instructions from Rosyth Quarry Co., Ltd., who are required to cease operations as a result of the formation of the approach roads for the Forth Road Bridge, to sell, by Auction, as above.

Catalogues from Auctioneers. Hamilton, August, 1961

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By Order of the Minister of Works.

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Catalogues, 1/- each, may be obtained, when ready, from Messrs. FULLER, HORSEY SONS AND CASSELL, Industrial Auctioneers, 10 Lloyds Avenue, London, E.C.8.

For the attention of Quarry Owners, Civil Engineering Contractors, Mineral Rights Owners and Investors.

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VALUABLE FREEHOLD QUARRY

with the benefit of Vacant Possession on completion.

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have been instructed to sell by PUBLIC AUCTION

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Subject to Conditions of Sale which may be obtained from the Auctioneers.

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Full particulars:

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A. J. Parslow, Brighton—Brighton 61228.

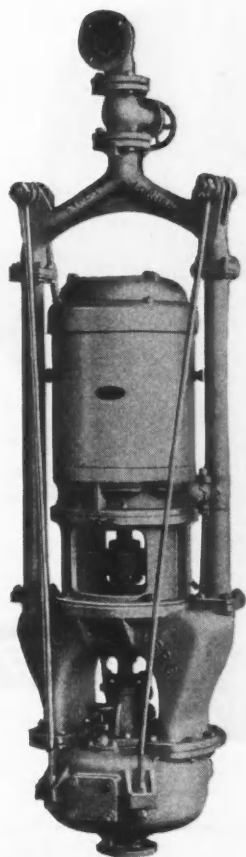
Underwater Welders and Repairers, Ltd., Cardiff—

Cardiff 29631.

Universal Divers, Ltd., Liverpool—Liverpool Cent. 4228.

The Association of Underwater Contractors, London—

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INDEX TO ADVERTISERS

	Page		Page		Page
A		E		P	
Access Equipment, Ltd.	924	Enfield Industrial Engines, Ltd.	880	Palmer, G. J., & Sons	878
A.C.E. Machinery, Ltd.	ib	English Electric Co., Ltd.	907	Parker, Frederick, Ltd.	873
Acrow (Engineers), Ltd.	966	English, F., Ltd.	xvii	Pearson Machine Tool Co., Ltd.	896
Acworth Plant Hire, Ltd.	878	Euclid (Great Britain), Ltd.	xvii	Peel, H., Ltd.	982
A.E.C., Ltd.	vi, vii	Eutectic Welding Alloys Co., Ltd.	875	Pegson, Ltd.	985
Allam, E. P., & Co., Ltd.	907			Perkins Engines, Ltd.	970
Allam Machinery Hire, Ltd.	975			Permanite, Ltd.	966
Allen, John, & Ford, (Oxford), Ltd.	964			Peters, Ltd.	926
Anderson-Grice Co., Ltd.	987			Pike, George, Ltd.	969
Ash, R., & Son, Ltd.	882			Portasilo, Ltd.	xviii
Audax	882	F		Priestman Bros., Ltd.	iv
Aveling-Barford, Ltd.	vib	Federated Employers' Insurance Association, Ltd.	965	Public Works Productions (Coventry), Ltd.	982
		Fodens, Ltd.	viii		
		Foster, Arthur, (East Ham), Ltd.	882		
B				R	
Babcock & Wilcox, Ltd.	905	G		Rawlplug Co., Ltd.	Cover iv
Bamford, J. C., (Excavators), Ltd.	Cover ii, iii, va	General Roadwork, Ltd.	968	Roads & Runways (Plant Hire), Ltd.	882
Barfords of Belton, Ltd.	x, xi	Gibson, F., & Co. (Newcastle), Ltd.	viii		
Barfords Developments Co., Ltd.	900	Goodwin-Barsby & Co., Ltd.	vib	S	
Benford, Ltd.	972	Green, Thos., & Son, Ltd.	vb	Saunders, A. J., (Tractors), Ltd.	876
Bigwood Bros. (Birmingham), Ltd.	liia	Greenham Equipments, Ltd.	894	Saunders, H. A., Ltd.	xa, xia
Blackwood Hodge	liia	Greenham Group	ic	Saville (Tractors), Ltd.	viii
Blaw Knox, Ltd.	879			Shawnee-Poole, Ltd.	895, 971, 903, 910
Boydell, E., & Co., Ltd.	v	H		Sheehy, Mark, Ltd.	896
Braithwaite & Co. (Engineers), Ltd.	877	Hardun & Sons, Ltd.	lia	Simon, Richard, & Sons	Cover v
Branch, Jack, (London)	882	Hardwick, F. W., & Son, Ltd.	xiii, xiv	Smith, John, & Co. (London), Ltd.	880
Brent, John, & Co. (Shipbrokers), Ltd.	894	Hood, R., Haggie & Son, Ltd.	896	Sparrow, G. W., & Sons, Ltd.	880
British Cellophane, Ltd.	902			Steel Fabricators (Cardiff), Ltd.	via, viia
British Hoist & Crane Co., Ltd.	xiii			Steel Precast Concrete, Ltd.	899
British Jeffrey-Diamond, Ltd.	ivb, 981	I		Stothert & Pitt, Ltd.	909
British Steel Piling Co., Ltd.	908	International Harvester Co. of Great Britain, Ltd.	Cover i, viii	Struel Bros. (Wholesale), Ltd.	904
Brookmore Foundry Co., Ltd.	988			Sykes, Henry, Ltd.	923
Brown, David, Tractors (Sales), Ltd.	983			Symes (Plant Sales), Ltd.	884
Brown & Tawse Plant, Ltd.	viii				
Building Exhibition	984	J		T	
		Johnson, C. H., (Machinery), Ltd.	875	Thorn, J., & Sons, Ltd.	883
C		Jury Holloware, Ltd.	898	Thwaites Engineering Co., Ltd.	ix
Caldwells, Ltd.	988			U	
Campbell-Gray, Ltd.	907	L		Universal Divers, Ltd.	988
Case, J. I., & Co., Ltd.	ii, iii	Lemand Machinery, Ltd.	973		
Caterpillar Tractor Co., Ltd.	ivc, vc	LeTourneau-Westinghouse Co.	897	V	
C.E.T. (Equipment), Ltd.	982	Leverton of Leeds, Ltd.	vii	Vass, L. W., Ltd.	880
Chadburns (Liverpool), Ltd.	972	Liner Concrete Machinery Co., Ltd.	881		
Chamberlain Plant, Ltd.	904	Lister, R. A., & Co., Ltd.	874	W	
Cohen, George, Sons & Co., Ltd.	893	Long, A., & Co., Ltd.	972	Ward, Thos. W., Ltd.	lib, liib
Cole, E. R., Ltd.	902			Weatherill, F. E., Ltd.	xia
Conlin, B. E.	973	M		White, R., & Sons (Engineers), Ltd.	882
Contractors' Services, Ltd.	901	Marshall, Sons & Co., Ltd.	xvi	Whitlock Bros., Ltd.	Cover vi, vii, ia
Cox, H., & Sons (Plant Hire), Ltd.	899	Michigan (Great Britain), Ltd.	ix	Winner, Ltd.	896
Cripps, R., & Co., Ltd.	lii	N			
Crogon & Co., Ltd.	967	Neagron (Construction), Ltd.	878	Y	
Cubitts, Fitzpatrick, Shand	986			Youngman, W. C., Ltd.	906
D					
Dawson, W. A., Ltd.	884				
Dew, G., & Co., Ltd.	984				
Diving Specialists, Ltd.	878				
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Dunlop Earthmover Tyres	xii				

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CITY OF PETERBOROUGH. STREET LIGHTING.

TENDERS are invited for the REMOVAL of EXISTING, and the SUPPLY and ERECTION of approx 600 NEW MERCURY and SODIUM UNITS on Steel and Concrete Columns.
Full details and Tender documents from City Engineer, Town Hall, £2 deposit.
Last day for receipt of Tenders: 19th SEPTEMBER, 1961.

C. PETER CLARKE,
Town Clerk.

Town Hall,
Peterborough.

CITY OF NOTTINGHAM.

TENDERS are invited for the FOLLOWING:—
(a) Supply and Delivery of Hot Rolled Asphalt (Granite Aggregate).
(b) Supply, Delivery and Lay Hot Rolled Asphalt (Granite Aggregate).
Forms of Tender obtainable from the CITY ENGINEER, Guildhall, Nottingham, returnable by 5 p.m. on 5th SEPTEMBER, 1961.

ROSS-ON-WYE URBAN DISTRICT COUNCIL.

FIXED-PRICE TENDERS are invited for the ERECTION of 14 THREE-BEDROOM HOUSES (one pair and three terraces of four houses), together with Drains, Paths, and all ancillary works, and New Road and Sewer, at THREE CROSSES ESTATE, Ross-on-Wye.

Applications for Bills of Quantities and Form of Tender, accompanied by a deposit cheque for £2 2s., payable to Ross-on-Wye Urban District Council, must be made not later than 7th SEPTEMBER, 1961, to EDGAR F. YOUNG, A.R.I.C.S., Chartered Quantity Surveyor, 2 Tivoli Lawn, Tivoli Road, Cheltenham. The deposit will be returned on receipt of a bona-fide Tender.

Bills of Quantities, Form of Tender, and envelope for the return of Tender will be issued on 7th SEPTEMBER, 1961, and Tenders, enclosed in the envelope provided for the purpose, must be delivered to the undersigned not later than 12 Noon on THURSDAY, 28th September, 1961.

The Council does not bind itself to accept the lowest or any Tender.

E. MOSES,
Clerk of the Council.

Council Chambers,
Ross-on-Wye,
Herefordshire.
21st August, 1961.

HAVE YOU EARTHMOVING EXPERIENCE?
We are looking for a REPRESENTATIVE to sell Sherman trenchers in Derbys, Notts, and Lincs. Remuneration by salary and commission, company car and expenses.—Please write, in confidence, to Sales Manager, WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12.

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REQUIRE an ESTIMATOR in the roads department at Birmingham. Applicants must be fully experienced in the preparation of estimates for all types of surfacing contracts involving hot rolled asphalt, bitumen and tarmacadam carpets, together with other ancillary works such as drainage, kerbing, etc. This is an excellent opportunity for the right man who has drive and ambition.—Reply in confidence, stating age, previous experience, to the Area Manager, Moor Lane, Witton, Birmingham, 6.

AREA AGENT/SENIOR AGENT, aged 45, SEEKS A SIMILAR POST. Craft and University trained. Fully experienced in all branches of building and civil engineering industry. Available immediately.—Write Box W.4730, "The Contract Journal."

ADDITIONAL CONTRACT SUPERVISOR REQUIRED by expanding company for work in the Midlands area. Experience in control of machine- and hand-laying gangs, including H.R.A., and macadam, essential.—Write Box V.4723, "The Contract Journal."

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CITY OF CARDIFF. CORPORATION WATERWORKS.

APPOINTMENT OF ENGINEERING ASSISTANTS.

VACANCIES exist for ENGINEERING ASSISTANTS, A.P.T. III/IV (£960-£1,310), on the permanent establishment of the Water Engineer and Manager. Commencing salaries up to £1,140 p.a., according to experience.
Candidates for the posts should have passed Parts "A" and "B" of the Examination of the Institution of Civil Engineers, or obtained a University Degree in Civil Engineering, and have completed two years' practical training.

Housing accommodation will be available for at least one candidate.
General Conditions of Appointment can be obtained from the Water Engineer and Manager, Municipal Offices, Greyfriars Road, Cardiff.

Applications, stating age, previous experience, and qualifications, together with the names of two referees, should reach the undersigned, in envelopes endorsed "Engineering Assistants—Waterworks," not later than TUESDAY, 19th September, 1961.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

21st August, 1961.

CITY OF BATH.

BATH FIRE BRIGADE AND AMBULANCE SERVICE.

TENDERS are invited for the SUPPLY of the FOLLOWING:—

(1) 146 Blue Shirts.

(2) 15 White Shirts.

(3) 156 Black Ties.

Tender Forms obtainable from the Chief Fire Officer, Central Fire Station, Bath, and Tenders should be submitted to the undersigned not later than WEDNESDAY, 6th September, 1961.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.

COST CLERKS, experienced in civil engineering, office of civil engineering contractors near London Airport. Aged 25-30. Excellent salary. Bonus and pension schemes in operation. Canteen facilities.—Write or phone for application to Accountant, WEST'S PILING AND CONSTRUCTION CO., LTD., Bath Road, Harmondsworth, Middx. SKYport 5222.

CIVIL ENGINEER/AGENT, preferably qualified, REQUIRED for interesting, medium-sized reinforced and prestressed concrete contract in Cambridgeshire area.—Apply Civil Engineering Department, MARSHALL-ANDREW AND CO., LTD., St. Andrew's House, Broadway, London, S.W.1.

A VACANCY exists with an old-established contractor for an experienced FITTER/MECHANIC. The firm carries a comprehensive range of well-maintained diesel, electric and petrol-driven plant, including derrick crane, tower crane and Priestman excavators. Workshop exists and is well toolled. Including periodic overtime, the wages equal £900/£1,000, is pensionable and permanent, and a modernised house is available at favourable rental. If necessary, Only an apprentice-trained man, 30 to 40 years old, of good habits and personality, will be considered.—Apply RANDALL, Contractors, Hartshill, Nuneaton.

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HOLLAND COUNTY COUNCIL. HIGHWAYS DEPARTMENT.

TENDERS are invited for the SUPPLY of the FOLLOWING:—

(a) Miscellaneous Plant.

(b) Motor Vehicles.

Tenders to be submitted on an official form not later than 7th SEPTEMBER, 1961.

Particulars from COUNTY SURVEYOR, County Hall, Boston, Lincs.

COUNTY BOROUGH OF BOLTON.

TENDERS are invited for the CONSTRUCTION of PLAYING FIELDS at NEW HOUSE FARM, DARCY LEVER.

The work comprises the Regrading and Seeding of approx. 64,500 sq. yd., together with Sub-soil Drainage, etc.

Tender Forms and documents from the BOROUGH ENGINEER, Town Hall, Bolton, returnable by 9 a.m. on MONDAY, 18th September.

FLAXTON RURAL DISTRICT COUNCIL.

STOCKTON-ON-Forest SEWAGE DISPOSAL WORKS EXTENSIONS.

TENDERS are invited on a Fixed-price Basis for the CONSTRUCTION of SEWAGE DISPOSAL WORKS EXTENSIONS at STOCKTON-ON-Forest.

The work comprises Hopper Bottom Settling Tank and Humus Tanks, two 65ft. dia. Filters, all in Reinforced Concrete, Sludge Beds and Pumping Station, with ancillary works.

Drawings may be seen at the Offices of the Council's Consulting Engineers, MESSRS. FAIRBANK AND SON, 28 St. Mary's, Bootham, York, on and after the 24th August, during normal working hours.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Consulting Engineers on payment of Three Guineas (by cheque, made payable to the Flaxton Rural District Council) which will be returned on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for Stockton Sewage Works," must reach the undersigned not later than 12 Noon on SATURDAY, 30th September, 1961.

The Council do not bind themselves to accept the lowest or any Tender, and the acceptance of a Tender is conditional upon the approval of the Ministry of Housing and Local Government.

A. R. TUNNAH,
Clerk of the Council.

Bootham Lodge,
No. 56, Bootham,
York.

CLERK OF WORKS REQUIRED to supervise the construction of a large reinforced concrete reservoir in the North West of England. The approximate duration of the contract is 18 months. Applicants should have had experience in a similar capacity and similar works. Salary will be up to £1,100 p.a., commensurate with experience, plus a suitable disturbance allowance. The closing date for applications is Tuesday, 29th August. Suitable applicants will be notified of a date for interview.—Write Box V.4716, "The Contract Journal."

SCHEDULER REQUIRED in busy taking-off department. Previous experience necessary. Suit older General Foreman or Clerk of Works seeking static employment.—Please send full details, and salary required, to Personnel Officer, M. GLEESON (CONTRACTORS), LTD., Hareton House, London Road, North Cheam, Surrey.

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THIS ADVERTISEMENT will be of considerable interest to experienced SALES REPRESENTATIVES working in the following areas: Middlesex, N.W. London, Berkshire, Buckinghamshire, Oxfordshire, Bedfordshire and Hertfordshire. Britain's foremost loading shovel manufacturer is seeking the services of a suitable Representative for this area. A high basic salary and commission, together with other amenities, will be offered.—Applications, to include full details of past and present employment, together with salaries, should be addressed to the Sales Manager, F. E. WEATHERILL, LTD., Twyn Road, Welwyn Garden City, Herts.

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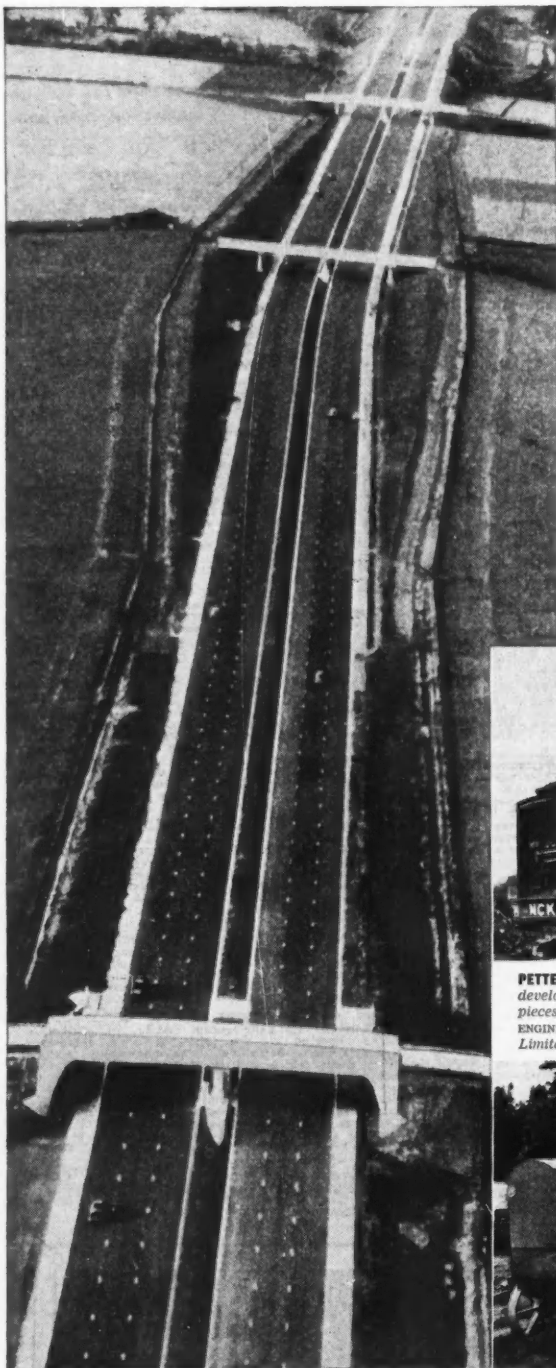
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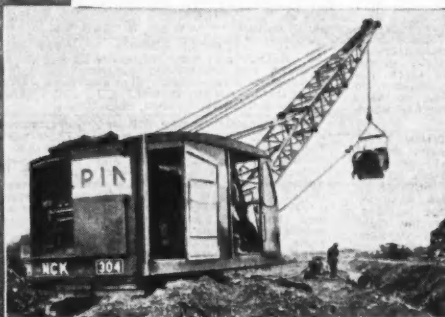
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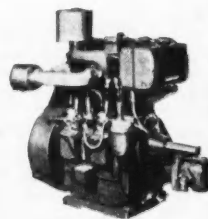
On this £24,000,000 project (74 miles of dual carriageway) over 400 items of contractors' equipment were powered by PETTER diesel engines.



PETTER AT THE SPENCER STEEL WORKS—On this £120,000,000 development (Richard Thomas & Baldwins) more than 200 pieces of plant are Petter powered! MAIN BUILDING AND CIVIL ENGINEERING CONTRACTORS: Sir Robert McAlpine (South Wales) Limited.



PETTER FOR THE BUILDER—Where lighter equipment is used, Petter still provides the power—on mixers, dumpers and pumps on this 140-house site for the Bracknell Development Corporation. (CONTRACTORS: George Wimpey and Co. Limited)



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ON ROADS AND PUBLIC WORKS—Petter powered a variety of plant used over the 5½-mile Maidenhead By-pass, including this vibrator roller (CONTRACTORS: to the Bucks County Council: Higgs & Hill Ltd.) Also on by-passes at Rossur, Doncaster and St. Albans.

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THE CONTRACT JOURNAL

INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

THE CONTRACT JOURNAL
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and
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LAWRENCE MCCARTHY

PRINCIPAL CONTENTS

	PAGE
John Sumner's Notebook	928
Autumn Tenders for London G.P.O. Building	929
Colonial Officers Study British Housing	930
Roof Raising at York Gives Expanded Storage Space	931
A Lawyer Considers	932
Hampshire Committee Report on High Building Costs	933
Direct Labour Irregularities	935
Power Station Proposed at Fawley	936
Progress of Main Drainage Scheme at Bray	937
Late Construction News	938
Fire-resistance of Floors, Concrete- encased Columns and Perforated Brick Walls	939
Men and Movements	940
Timber Hyperbolic Paraboloid on Norwich School	941
Talking of Safety, by "Dragee"	942
4½in. Power Cables for Welsh Hydro- Electric Scheme	943
For the Diary	944
Final Stage of £3½m. Hong Kong Housing Scheme	945
A Record Year for Colonial Develop- ment	946
Construction of Dock Warehouse at Amsterdam	947
Trade and Company News	948
CURRENT CONSTRUCTIONAL ACTIVITIES:	
Projects	952
Contracts	956
Awards	962

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Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

SIR RICHARD'S EYE TO THE FUTURE

SIR RICHARD COPPOCK had identified himself so much with the building union movement in his 41 years as general secretary of the National Federation of Building Trades Operatives that it was almost unthinkable to talk of his retiring. But retire he recently did, and his valedictory message "Eye to the Future" has just been published. None but Sir Richard could have covered so much ground and left so many questions unanswered in eight short pages.

He wags a reprimanding finger at the constituent craft unions for not settling their demarcation differences and for not recognising that the problems are serious and urgent. As new methods and materials are introduced says Sir Richard a more fluid and tolerant attitude from the unions to each other could lead to closer co-operation between them and a more powerful co-ordination of their forces.

Sir Richard calls for the integration of the two separate building and civil engineering agreements so as to bring every operative under one constructional trades agreement. Obviously this will be resisted by the labour unions who have consistently voted against this proposal at N.F.B.T.O. conferences. Apart from referring to the problems of the existence of at least four separate organisations catering for labourers, Sir Richard chooses to ignore this side of the issue.

He calls for a really national joint council with wider powers and stricter enforcement of agreements through regional councils. He urges a radical review of apprenticeship training with a view to getting down to about four main divisions: wet fixing, dry fixing, metal work and finishing.

Above all, says Sir Richard, the goal should be the establishment of one united body to which all building workers belong. Imagine the possibilities, he says. It would be possible to create a national machine capable of giving top publicity, research and organisational services. It would be a union of the trades far more powerful and influential than any individual organisation. Perhaps of even greater importance because of ultimate political objectives is the fact that a united organisation of building workers would be a really great political force in the land.

And politics is where Sir Richard begins his message, not ends it. For he says "I am unrepentantly of the opinion that the solution we seek will have to be on political rather than industrial lines". He is clearly convinced that a private enterprise construction industry can never provide the site conditions, the pension and sick schemes and, above all, the security of employment that the unions demand.

But is it really true that nationalisation will solve casualisation? Many of the men in the industry have got "moveitus". They move from job to job because they like doing so. And nothing is going to stop them. In fact, despite the very big efforts of some of the biggest contractors to reduce labour turnover and the cost that it involves, the greatest measure of continuity of employment is probably among the small firms upon whom Sir Richard has heaped so much scorn in the past. Construction workers have in any event got to go where the work is. So their security of employment lies in a full construction programme and not in some nationalised concern.

Sir Richard is equally at fault when he contends that nationalisation is necessary for establishing planning and priorities. The construction industry services investment. It does not regulate it.

John Sumner's Notebook . . .

IT is some time since building contractors took a stand on the use of the R.I.B.A. Form of Contract for local authority work. Now the Darlington and District Building Trades Employers Association is having words with the Darlington Corporation because the latter is disinclined to use the R.I.B.A. Form and meet the conditions it sets out.

The controversy led Councillor C. Spence to allege that the local builders would boycott tenders unless the Corporation altered its policy over contracts. This has been strongly denied by Councillor Alfred Bird, president of the Darlington Association, who says that the local builders are anxious to assist the Corporation's building work, not to hinder it.

The real point at issue seems to be the clause in the R.I.B.A. Form allowing to contractors 2½ per cent. of sub-contractors' prices and there seems to be a fair amount of confusion in the minds of members of the Darlington General Purposes Committee over the reason for this arrangement.

Alderman J. A. Alsop has pointed out that the R.I.B.A. Form of Contract safeguards everybody, as one would expect a document to do which was the result of years of joint consultation, drafting and re-drafting between the representative bodies of the architects, surveyors and building contractors.

Regrettably the Darlington General Purposes Committee decided, after heated discussion, to keep to its present procedure of inviting tenders using its own form of contract and to report to the Town Council accordingly.

I hope that the contractors in Darlington and in every other locality where similar differences of opinion arise will not relax in any way their efforts to ensure that local authorities use the R.I.B.A. Form of Contract.

The Standard Form (it is now being revised and I understand that the new version should not now be long delayed) embodies a degree of standardisation of the legal conditions of building contracts reached upon the soundest of foundations, namely, the consent of those whose profession and business it is to work within its terms. It is not, however, a model upon which to base individual requirements and in which to insert contrary clauses and amendments. Such practices not only upset the agreed balance between the parties to a contract, but increase the likelihood of confusion and dispute and are therefore bound to result in higher building costs.

Some local authorities, and Darlington seems to be one of them, are in danger of overlooking these fundamentally sound principles upon which the Standard Form is based.

WHILE ratepayers of Colchester are being invited to be thankful for the fact that the town has a Building Works Department the citizens of Nottingham have learned that a thorough investigation of the Corporation's direct labour system has been launched.

In Colchester the chairman of the Building Works Committee, Mr. W. H. Willingham, recently informed the council that the direct labour organisation's tender was the only one received for the building of 70 new dwellings. "People on the housing list," he said, "should be very thankful that we have a Building Works Department, otherwise they would not be allocated any accommodation at all."

There was a time when the local building contractors in Colchester would never have dreamed of letting the direct labour department be the only building organisation tendering for a job of this size. I

wonder what has happened? Is it that the Colchester builders are no longer interested in combating direct labour? Is it that they have too much work on hand themselves, or is it a combination of both?

The purpose of the investigation into the direct labour system at Nottingham is clear cut. It is to determine whether private contractors can do the council's maintenance work more cheaply than the direct labour department. This is, from the point of view of the ratepayers in Nottingham, a laudable aim, and it should put the maintenance firms in the city very much on their toes.

There are 500 maintenance workers employed by the Nottingham City Corporation, but should the investigations show that the direct labour arrangement is bad business, not one of the 500 need worry about being out of a job. I am quite confident that the firms in and around Nottingham will be only too glad to take them on.

Challenge to Sculptors

I HAVE been taking a rather belated look at "Build," the new magazine published by Wates. This is something new in the way of journals published by commercial and industrial concerns and I could hope that more will copy the example. "Build," in its first issue, devotes most of the space to a critical survey of sculpture and architecture by Terence Mullaly, the editorial art adviser to *The Sunday Telegraph*. Apart from commenting on current examples of architectural sculpture he expresses opinions on why some have failed and why others have succeeded.

Interesting as all this is, however, I have been more struck by a contribution made to the same issue by K. W. Bland, Wates' staff architect. It was not so many years ago that private house-builders were being rightly condemned for their mutilation of the English town and landscape by disregarding even the most elementary principles of aesthetic design and lay-out. But the period since the War has brought a great change, although, as I have pointed out before, it is somewhat more in evidence in the southern part of the country than in the north. The leaders of this movement have moved on from the problems associated with building houses that are good to look at and convenient to live in and have progressed even beyond the stage at which the landscaping of new housing schemes is given the right measure of attention. As Mr. Bland points out, density is no longer a measure of class or price level as it once was. Because of this there are better opportunities for private house-builders to put up their new houses and bungalows in groups and not as individual units taking on the conventional street patterns we have known for too long and come to deplore. This new approach makes more possible the incorporation within each group of dwellings of a focal point which tends to strengthen its individual identity. Mr. Bland says it can be a tree-shaded, paved area or the provision within the general lay-out of a free-standing sculpture; it could be a combination of both, and there is a fine example in Patricia Rowland's "Mother and Child" piece at Lowood Court, Dulwich.

I hope that the number of house-builders using sculpture in this way will steadily grow. There is every chance that it will, provided the sculptors accept the challenge in the spirit in which it is offered to them. By this I mean that their work must be of such a nature that people and their families passing it dozens of times a day can live happily with it without feeling the need to treat it as a joke. Their ennobling

and enriching art and sculptors themselves have suffered too much from failures on this score in the past.

Why Two Camps?

IT is rather gratifying to learn from no less a person than Sir Richard Coppock that in the last 10 or 15 years a subtle change has been taking place in public opinion of the building industry and that the old scornful accusations of backwardness, low mechanisation, high costs and poor production have gradually died away.

Comforting as this may be to many in the industry Sir Richard, in his recently published pamphlet "Eye to the Future," raises a number of issues which might reasonably discourage any atmosphere of complacency within the industry as a whole. The pamphlet is published by the N.F.B.T.O. (price 6d.) and I would like to think that every building employer will find the time to read it. That is not to say that I agree with all that Sir Richard writes about. Far from it. But some of the matters he raises really do need attention. Clearly, after a lifetime spent in the building industry, he is still preoccupied with two great problems so far as the operatives are concerned. One is the need for a big improvement in the amenities provided for operatives on the building site and the other is expressed in his wholesale condemnation of the casual nature of building employment. Sir Richard, however, puts forward plenty of ideas for the contractors to ponder over on how these two problems might be overcome, or at least, he has ideas on the machinery which might be developed for overcoming them.

He goes on, too, to tell the building unions in fairly blunt terms just what their shortcomings are. He chides them for not making any progress after the conference over two years ago on the impact of new techniques on building craft operations and scoffs at the existence of two national agreements in the industrial field, one for building and one for civil engineering. "There are employers," he writes, "who obviously think it to their advantage to have this almost artificial distinction in the industry in order to play off one agreement against the other. Regretful though it may be, this attitude frequently seems to determine the actions of some of the trade union side." It unquestionably does and Sir Richard is not unaware of the big issues he raises here. Personally, I have never seen the need for two agreements. Nor have I seen the need for two camps on the unions' side and two camps on the employers' side. In each respective instance one camp is but a weak and blurred shadow of the other.

I do not agree with Sir Richard, however, when he says that the longer the two agreements are tolerated by the unions the weaker they will become and *vis-a-vis* the employers. My view is that if the two agreements were moulded into one, and the two camps on either side of the industry were moulded into one, the construction industry as a whole would become overnight an infinitely stronger and more influential element in the life of the nation. I wonder what my readers think?

MOTORWAY BRIDGE FOUNDATIONS CONTRACT

Foundations for 10 bridges on the Birmingham-Preston motorway will be provided by Braithwaite Foundations and Construction, Ltd., Instructions for the work to be put in hand have been issued by the main contractors, Tarmac Civil Engineering, Ltd.

Included in the contract are the foundation cylinders for two level interchanges of the Middlewich to Holmes Chapel road and the Northwich to Manchester road also the Bridgewater Canal Bridge and Camsley Viaduct.

In all, the contract involves the sinking of 363 foundation cylinders varying in diameter from 36in. to 78in.

AUTUMN TENDERS FOR LONDON G.P.O. BUILDING

Stability Problems In 500 ft. Radio Tower Design

WORK has commenced on the foundations of a new building at Howland Street, Tottenham Court Road, W.1, which is to include a tower about 500ft. high.

The £1m. building, for which tenders will be invited from selected contractors in the late autumn, has been designed by the Ministry of Works for the G.P.O. as an extension of the present Museum Telephone Exchange, and will provide approximately 150,000 sq. ft. of space, mainly for accommodation of automatic telephone equipment. Aerials for television and radio telephony will be carried by the tower.

Site Considerations

With a 220ft. frontage to Maple Street, the site is bounded on the west by Cleveland Street and on the east by Cleveland Mews. The tower will be so sited as not to obstruct, during construction, the "lines of sight" from the present lattice mast;

this factor and the ready access for equipment provided by Cleveland Mews determined the siting in the south eastern section of the site. In view of the large areas required for automatic equipment, the building has been conceived as a "pancake" block covering the entire site except that part occupied by the tower and its associated service yard.

The tower will be approximately 54ft. in diameter, and will be mainly of glass and concrete. It will have a hollow central shaft of reinforced concrete 2ft. thick and 31ft. internal diameter at the bottom, tapering to 20ft. internal diameter with 12in. thick walls near the top. As well as providing the spine of the tower, the shaft will also contain the lifts, ventilation ducts, Post Office cables and all other services.

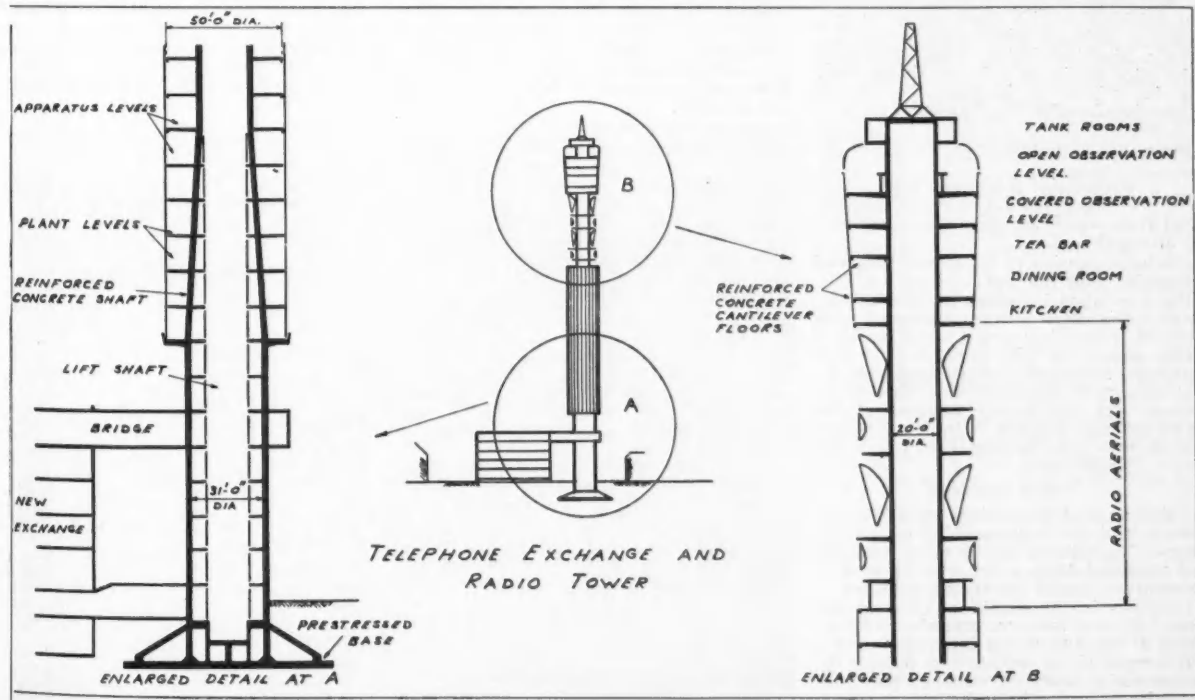


Scale model of extension and radio tower

Windows will be double glazed, the outer panes fixed and cleaned externally from power-operated cradles running in bronze guides, and Venetian blinds will be arranged between glazing. The apparatus floor will be fully air-conditioned, ducting being provided in suspended ceilings. The structural shaft below will have an exposed aggregate finish.

A glazed public viewing platform will be provided at a height of about 500ft. The public approach will be via an arcade from Maple Street to an internal court over the service yard and car park. Part of the

(Concluded on page 930)



COLONIAL OFFICERS STUDY BRITISH HOUSING

THE new Department of Technical Co-operation has recently been holding its first study course, in London, in conjunction with the Ministry of Housing and Local Government.

Fourteen housing officers from Africa, the West Indies and other parts of the Commonwealth have been learning how housing in Britain is administered and financed, and have discussed how these methods might be applied in their own countries.

With officials of the Ministry and of the Scottish Office they have studied housing problems in England and Wales and in Scotland, the planning of land use, slum clearance and housing management.

Coventry city treasurer (Dr. A. H. Marshall) described local authority housing finance, and the roles of housing associations and building societies were explained by speakers from the National Federation of Housing Societies and the Building Societies Association. Also discussed were housing standards and finance in overseas countries, and the party saw housing in London, Crawley New Town and the neighbourhood of Guildford.

The officers attending the course were: Barbados, Mr. T. O. Lashley, manager, Barbados Housing Authority; Fiji, Mr. K. R. Bain, acting deputy financial secretary; Gibraltar, Mr. R. W. Coelho, Housing manager, Lands and Works Department; Jamaica, Mr. A. D. J. Wheeler, administrative native officer; Kenya, Mr. J. J. Adie, permanent secretary for labour and housing, and chairman of the Central Housing Board, representing the Kenya Government, and Mr. P. J. Simpson, clerk to the Kitale County Council; Mauritius, Mr. S. Bhuckory, town clerk, Port Louis; Nigeria—W. Region, Mr. F. A. Erinoso, chief accountant; North Borneo, Mr. P. McG. Hewitt, administrative officer; Seychelles, Mr. N. C. Flanders, Government architect; Solomon Islands Protectorate, Mr. D. M. Freegan, administrative officer; Trinidad, Mr. E. F. Nunez, senior assistant secretary, Ministry of Housing and Local Government; Tanganyika, Mr. R. W. Smith, administrative officer; Uganda, Mr. J. Kigozi, African housing officer.

PLYWOOD MANUFACTURERS' LIVERPOOL OFFICE

The Plywood Manufacturers Association of British Columbia have opened a new office at 20 North John Street, Liverpool, 2 (Tel.: Maritime 2197). The function of the office will be to assist the timber trade in its efforts to increase the use of Canadian Douglas Fir Plywood.

(Concluded from page 929)
court will be covered to form an entrance hall from which access to the tower lifts is arranged.

Sub-soil consists of water-bearing gravel overlying blue clay at a depth of 25ft. The foundation is formed in the blue clay with a reinforced concrete truncated pyramid of hollow box construction, which is 90ft. square by 22ft. high, with a pre-stressed, reinforced concrete base slab. An access tunnel links the hollow base of the tower with the lower basement of the adjacent new building. The total weight of the tower and its foundation is approximately 13,000 tons.

Design Problems

The unusual proportions of height and shape, and the compressibility of the clay sub-soil foundation present major problems of structural design to achieve the required stability. Slender towers are sensitive to variations in the conditions of wind and sun. In this instance, excessive deformation of the axis would interfere with the alignment of the aerials and disturb the transmission beam, the maximum permitted angular deflection being limited to twenty minutes of arc.

The cylindrical form of the tower offers

"INQUIRY INTO PLANNING" T. & C. P. A. Conference

THE 1961 national conference of the Town and Country Planning Association is to be opened by the Minister of Housing and Local Government, Mr. Henry Brooke, at Church House, Westminster, on October 25.

The conference will consider the major trends now influencing people's choice of home and work; the functioning and the appropriateness of the planning machinery at central and local government levels; and the policies that the problems demand.

Programme

The Land, the People, and the Plans. Speaker: Michael Wise, professor of geography, London School of Economics. Discussion opener: J. R. James, O.B.E., chief planner, Ministry of Housing and Local Government.

Planning and the Local Government System. Speaker: Sir Edwin Herbert, K.B.E., LL.D., chairman of the Royal Commission on Local Government in Greater London. Discussion opener: Desmond Donnelly, M.P.

Planning and Central Government. Speaker: Sir John Wrigley, K.B.E., formerly deputy secretary, Ministry of Housing and Local Government. Discussion opener: William Deedes, M.P.

The Quest for Policies. Speaker: Peter Self, M.A., chairman of the Executive, Town and Country Planning Association. Discussion opener: P. A. Macrory, chairman, Location of Industry Committee, Federation of British Industries.

Sir Frederic Osborn

The dinner in honour of Sir Frederic Osborn on his retirement as chairman of the Association's Executive Committee will be held on October 25 at Connaught Rooms, London. It was to have been held in June, but had to be postponed because of Sir Frederic's illness.

MINISTER CONSULTS LOCAL AUTHORITIES

Mr. Henry Brooke, Minister of Housing and Local Government, has asked local authorities in England and Wales for information about their practice and experience in regard to the use of turnstiles in public lavatories. He has also requested them to install no more turnstiles pending a statement on the subject he proposes to make to Parliament before the end of the year.

Meanwhile, says his letter, the Minister will not give loan sanction for any public convenience scheme in which turnstiles are included.

the advantage of less resistance to the impact of the wind. It is estimated that wind gusts of 75 m.p.h. may induce a deflection of ten inches, and movements of up to two inches may be expected from the effect of solar heating.

With structures of this type a special problem of stability may arise from steady wind conditions of quite low intensity which cause transverse oscillations, and these could, in certain circumstances, build up into movements of a serious magnitude. The conditions which cause this phenomenon are difficult to predict accurately by calculation. Wind tunnel tests on scale models of the tower were carried out by the National Physical Laboratory to investigate this possibility.

The stability of the tower will be assisted by the bridge deck connecting with the main building at 80ft. above the ground. This deck will transmit a maximum horizontal wind force of 500 tons, and the structure of the adjacent main building will be stiffened to provide this restraint. This attachment of the tower to the deck will be arranged so as to provide a lateral stay without resisting vertical deformation relative to the main building.

Rising 115ft. above ground level, the

RESEARCH ON MECHANISATION IN PLASTERING

THE National Federation of Building Trades Employers announces the inauguration of a planned programme of research into the mechanisation of plastering operations.

The new developments in plastering which were discussed at the conference in London in June, organised by the National Federation of Plastering Contractors, have aroused considerable interest in the industry.

One of the subjects discussed at that conference, the increased mechanisation of plastering operations, is now to be the subject of research by the Building Research Station in full collaboration with the National Federation of Plastering Contractors. As a result it is hoped to provide the industry with an objective account of what part machines can play in producing good plaster-work. Some of the subjects which will be dealt with are: What mixes are most suitable for machine plastering; the quality and durability of machine-applied as compared with hand-applied plaster; the kind of operation for which mechanised plastering is most suitable; the capabilities of existing machines and how they can be improved.

It is expected that the results of the enquiry will give a considerable impetus to the development of mechanised plastering and will thus help in the solution of one of the main difficulties of the plastering craft, namely, the present acute shortage of craftsmen.

The National Federation of Plastering Contractors hope to begin this important research in collaboration with the Building Research Station early in September.

BUILDING IN TWENTY YEARS' TIME

Subject of Week-End Conference

The junior Liaison Committee of Architects, Quantity Surveyors and Builders have arranged a week-end conference to discuss building in 20 years' time.

The conference will be held at Downing College, Cambridge, from September 15-17, and the speakers will include: E. D. Jefferiss Mathews, O.B.E., F.R.I.B.A., F.R.I.C.S. (conference chairman); D. E. Gibson, C.B.E., M.T.P.I., F.R.I.B.A. (architect); P. W. Grafton, F.R.I.C.S. (quantity surveyor); D. E. Woodbine Parish, F.I.O.B. (builder); John Wood, M.A. (economist).

Further details can be obtained from J. Mackay-Lewis, A.R.I.B.A., c/o Robert Mathew and Johnson-Marshall, 24 Park Square East, London, W.1.

lowest section of the tower will be linked to the adjacent building by the bridge deck at the 80ft. level. The shaft in this section will be provided with internal, stiffening rings.

On plan, the next section of the tower, from 115ft. to 355ft. above ground, provides 17 floors of reinforced concrete, cantilevered out from the main shaft. This section of the tower will be enclosed with glass cladding.

A third section will house the platforms for the main aerials and these are unclad in order to minimise interference with the transmission beams, and the fourth and highest section will contain a revolving restaurant, kitchen, tea bar and both open and covered observation floors which will be open to the public.

The main shaft will rise a further 31ft. above the top observation gallery and houses the lift motor rooms and control gear. Surmounting the concrete shaft, there will be a steel lattice tower approximately 45ft. high, designed to carry additional aerials.

It is expected that work will begin on the building at the beginning of next year, and completion should be in 1963. The contractors for the foundations are Peter Lind and Co., Ltd., London, S.W.1.

ROOF RAISING AT YORK FACTORY GIVES EXPANDED STORAGE SPACE

ADDITIONAL storage space was recently provided at the York factory of Rowntree and Co., Ltd., where there was little space to expand laterally, by raising the roof of the store a further 5ft.

The section of the roof to be raised was a self-contained section of the storeroom 95ft. long and 42ft. wide. The roof was of the northlight section and was supported on six heavy wooden trusses. These trusses were thought to be about 40 years old, and were themselves supported on the brickwork of the storeroom walls and by two intermediate columns. The steeper slope of the roof was continuously glazed and the other side was slated.

On investigation it was found that the trusses were not continuous across the building but were divided by the valley beam. It was also found that this valley beam, a 10in. by 4in. R.S.J., was not continuous either, but each beam was split in three positions.

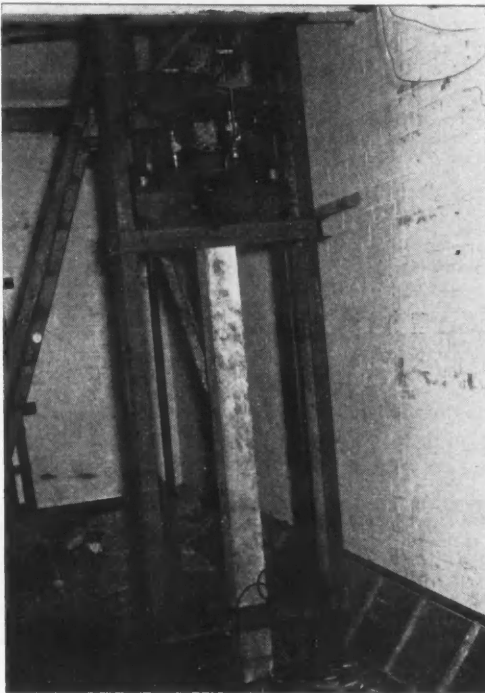
At approximately 51 tons, the total load of the roof was within the lifting scope of one of the contractor's jacks, but the lack of continuity of the structure caused difficulties in the transference of load. It was, therefore, found necessary to lift the area of the roof in two sections and to do this at 16 lifting points, thus using 16 jacks.

In normal lift slab practice the jack sits on the top of the columns and by means of high tensile steel rods lifts the slab towards itself. Because the roof was already sitting on top of the columns this method could not be used at York, and it was necessary to adapt the jacks to push from below rather than pull from above.

This was brought about by using a sliding steel trestle fabricated in the contractor's workshop. The jack sits on the T-section of the trestle and is connected to

the U-section by high tensile steel rods. As the jack lifts so the rods rise lifting the U-section which has a sliding member which passes through the collar on the T-section and so lifts the structure.

Because of the lack of continuity of the roof it was decided that the internal jacks should lift in pairs and that these should lift against beams, which were D.S.L.



Jack and steel trestle

centering girders especially provided for the purpose, by Rapid Metal Developments, Ltd.

Before lifting was started, the area was divided into two by cutting through the purlins and valley beams and removing the glass and slates over the cutting line.

Apart from this, no other slates or glass were removed.

The roof was divided 10in. from the centre truss and parallel with it. This meant that the valley beams and purlins would be cantilevering from the next truss. It was therefore necessary to build a temporary truss to support these members both prior to, and during lifting. This was done with further D.S.L. girders and trench props.

With 16 jacks in position, the first area was lifted and the column extension placed in position on top of the existing columns and bolted up. Temporary supports were provided for the extremities of the trusses until such time as the brickwork was brought up to provide bearing. The equipment was then removed and transferred to the second half and lifting completed. Then column extensions were placed in position and the beams and purlins reconnected.

Previous to this operation, storage pallets were piled two high. The roof was raised 5ft. and this enabled the pallets to be stacked three high.

Thus, over this particular area, the storage space was effectively increased by 50 per cent., excluding brickwork and other small building work, the complete lifting operation was completed in three weeks. British Lift Slab, Ltd., 395 George Road, Erdington, Birmingham, were the contractors for the roof raising.

MOVE TO RATIONALISE STRUCTURAL STEEL

Proposals are under consideration for a new British Standard which will substantially reduce the number of sizes of steel beams rolled in this country. Such rationalisation should lead to greater economy in production and thus improve the position of British makers of structural steel and British fabricators seeking business on the Continent and in other countries.

The proposals will permit of more frequent rolling of all sizes in the new list, resulting in speedier delivery and will assist in standardisation in design, thus facilitating work in the drawing offices.

Since the introduction of universal beams in 1958, the number of I and H profiles has risen to 71. Adoption of the proposals which have been submitted to the British Standards Institution will reduce the number to 27.

Recently two more steelmakers have brought into operation universal beam mills and two other mills are planned. The British Constructional Steelwork Association, representing the fabricators, is co-operating with the steelmakers.

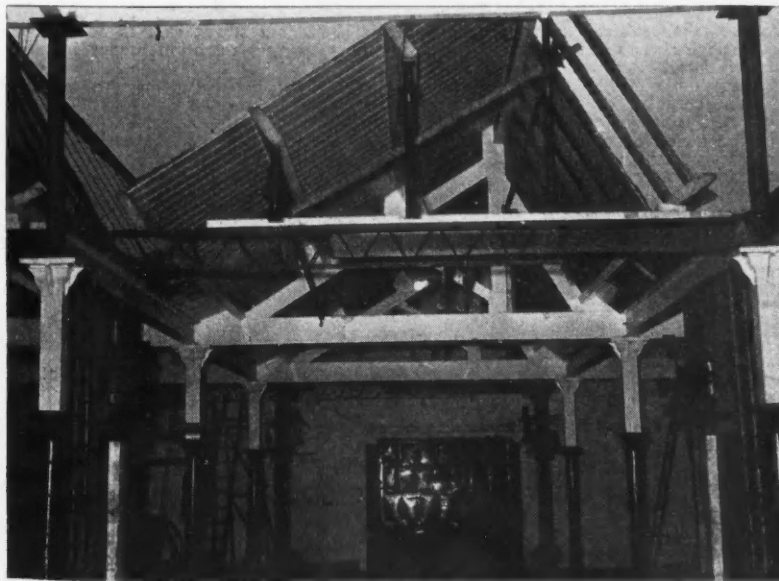
The new British Standard now under consideration will be established, it is hoped, by the end of this year and that on 1st January, 1963, the existing British Standard covering the sizes and weights of structural steel will be withdrawn.

FURTHER INCREASE IN MOTOR TRAFFIC

Motor traffic on the trunk and class I roads of England and Wales has increased by more than half in the past seven years, and by more than a third in the past five years.

A M.O.T. traffic census taken in August, 1960, showed that the number of motor vehicles counted was 62 per cent. greater than in 1954, when the last comprehensive census was taken, and 37 per cent. more than in 1956.

The overall picture is that generally for every three vehicles travelling on the roads in 1956, there were four travelling in 1960. The only vehicles for which this was not roughly true were buses and coaches, of which there are nine on the roads today for each ten on the roads in 1956.



General view of roof being raised

A LAWYER CONSIDERS . . .

Position of Sub-contractors on Bankruptcy

THE financial failure of a main contractor during the progress of the works is bound to create many problems for all concerned. Unfortunately, such failures are not uncommon in the construction industries and a few notes on the position of sub-contractors when such a failure occurs may be of interest.

It is of course impossible in a short space to deal with all the intricate problems which a financial failure produces and any sub-contractor who is faced with this situation should lose no time in getting expert advice on how to safeguard his position. But a few general remarks may help to show the need for getting such advice and assist in taking those precautions on entering into sub-contracts which experience has shown to be wise.

Unfortunately, the law differentiates between individuals and companies in this question of insolvency. If an individual commits an act of bankruptcy, usually of course an inability to pay a debt, and the creditor applies for a receiving order, the individual, on the issue of that order, is declared bankrupt from the date of the act of bankruptcy. If a company cannot pay its debts then the creditor has to apply for a winding-up order which will put the company into compulsory liquidation and the winding-up order will take effect from the date of the presentation of the petition to the court. Bankruptcies and compulsory windings-up are very similar, but the differences have some substantial importance beyond the different terms used; again these differences show the need for getting skilled advice. On bankruptcy a trustee is appointed of the bankrupt's estate; on a winding-up a liquidator is appointed; their basic duty is to discharge the debts and all their activities are to that end but, apart from some creditors like the tax authorities who have the right to payment in full in priority to any other creditor, the general body of creditors are treated alike with equal shares in whatever may be left to share. And sub-contractors are, normally, but one of this general body of creditors.

Chief Problems

There are perhaps three main problems which face a sub-contractor when the main contractor is declared bankrupt or is wound-up. Firstly, what are the possibilities of the sub-contract being continued and can the sub-contractor simply break off the sub-contract and be finished with the whole unfortunate business. Secondly, what are his chances of getting paid for work done but not paid for at the time of the receiving or winding-up order. Thirdly what happens to any money held on retention. These subjects may be discussed generally but it must be remembered that each case may have some facts which take it out of the general law on these matters.

Continuing the Sub-contract

If the sub-contractor has not signed any form of sub-contract, as so frequently happens, then there will almost certainly be no express contract conditions as to what is to happen to the sub-contract on bankruptcy or winding-up.

Generally the position is that the trustee or liquidator on appointment has the right to decide whether or not to continue any contracts not completed and this will of course apply to sub-contracts. How he decides will depend on two factors; firstly on whether the main contract provides for the trustee or liquidator to keep this power or whether it provides that on bankruptcy or liquidation the main contract is to be terminated; secondly, if he has this power of decision as to continuing the contract or not, whether it is in the creditors' interests to go on with the contract. While this decision has to be made within a certain time nevertheless

the inevitable result to the sub-contractor who has no specific rights under his sub-contract in this situation is a period of possibly expensive uncertainty. Even if the main contract is on R.I.B.A. conditions which provide for the contractor's employment, but not the contract itself, to be terminated on bankruptcy or liquidation nevertheless, if the building owner and the trustee or liquidator so agree, the employment can be reinstated. So even here the sub-contractor without specific rights on bankruptcy or liquidation must put up with delay and uncertainty on his sub-contract; even if he can get an extension of time and possibly extras for increased cost due to the delay if the main contract is in fact continued and his sub-contract can be also continued, this is still not much of a safeguard. He would clearly be in an altogether better position if he had a sub-contract with specific rights arising to him so that if the main contractor's contract, or employment under that contract, is terminated for bankruptcy or liquidation then the sub-contractor's employment or contract is equally terminated together with clear provisions setting out exactly what will be owing under the sub-contract in the event of that sub-contract having to be determined for this reason. Such provisions will help to quantify the sub-contractor's claim and may avoid long arguments with the trustee or liquidator and the other creditors as to what is or is not due to the sub-contractor.

It is this kind of specific protection which the standard form of sub-contract gives. This form is designed of course mainly for sub-contractors nominated under R.I.B.A. conditions but the standard form of sub-contract (non-nominated) provides similar protection for other sub-contractors; while that form was apparently drawn up for plastering sub-contractors it requires very little amendment to make it suitable for use by other non-nominated sub-contractors.

Payment for Work Done

The general position here is that the work done under a sub-contract but not paid for will, when quantified, rank as a debt and the sub-contractor will get such proportion as the trustee or liquidator finally pays. It is therefore desirable in a sub-contract agreement to lay down rules as to how this debt is to be quantified. Unless such rules are clear the sub-contractor can be involved in dispute. For example a trustee or liquidator might not dispute the sub-contractor's claim in principle for work actually done and for materials and goods on site which, as for instance under R.I.B.A. conditions, have become the property of the employer. But what of a contract for materials which the sub-contractor has ordered for the sub-contract works and under which the sub-contractor may be bound to accept delivery? Is this kind of liability the sort that a trustee or liquidator (and the other creditors) would accept without a struggle? Obviously it is much better to specify, without of course including unreasonable items, in the sub-contract exactly what shall be due if the main contractor goes bankrupt or is wound-up. It is just this which the two standard sub-contract forms mentioned earlier try to do.

However even if the debt is ascertained and will, if met at least in part, go some way to mitigate the loss and inconvenience to the sub-contractor there is bound to be considerable delay before the debt can be even partially settled. Sub-contractors will therefore want to try to see if they can be paid direct by the building owner for their work. On this the general rule would be that a sub-contractor has no contractual claim against the building owner for the work he has done even if he is nominated; the contractual claim for that

work is on the main contract and the right of the sub-contractor to get paid depends on the sub-contract. Upon bankruptcy or liquidation the trustee or liquidator will get in all the money due under the main contract, including money for work of sub-contractors, and this money will be for the general benefit of all creditors. However in this situation the R.I.B.A. conditions do help a little and their efficacy was considered in the important case of *re Tout and Finch, Ltd.* [(1954) 1 All E.R. 127].

The provisions concerned relate solely to nominated sub-contractors. By Clause 21(c) of the R.I.B.A. contract if a contractor has not discharged all sums stated to be due to a nominated sub-contractor in a previous certificate then the architect may certify for direct payment by the employer of these sums. Thus, if on bankruptcy or liquidation there is outstanding to a nominated sub-contractor a sum which has been duly certified by the architect then the nominated sub-contractor can ask the architect to certify direct payment of the amount already due and, though the clause is not particularly clear, probably an amount to cover work that has been carried out since the previous certificate which the contractor has not honoured. In *Tout and Finch* the creditors of a contractor in liquidation challenged the right of the architect to pay these sums to a sub-contractor and alleged they should be paid to the liquidator for the benefit of all the creditors. The court was however satisfied that once the conditions laid down in clause 21(c) were fulfilled and the power to pay direct had arisen the bankruptcy or liquidation of the contractor did not affect the right if the employer and his architect chose to exercise it.

The weaknesses of this procedure are that it depends on previous defaults by the main contractor in paying over sums due in a certificate to a nominated sub-contractor; and that it is not a right which the nominated sub-contractor can enforce. It is however, despite these weaknesses, a most valuable right and nominated sub-contractors should, to put confidence in an architect and his employer that they can exercise the right without trouble from the trustee or liquidator, refer to the case of *Tout and Finch*. Once again the advantages of using written standard conditions is clear even if those conditions are not ideal.

Retention

There is a strong case to be made for the view that retention money is money earned but not payable until the happening of certain events; and standard forms of contract usually provide for the events on which it becomes payable. It is almost certain therefore that retention money held by a bankrupt contractor against a sub-contractor is part of the bankrupt's debts. Is it, however, possible to get the whole of the retention on the sub-contract paid over if the main contractor goes bankrupt or into liquidation—or must the money go into the common pool for the benefit of all creditors?

Apart from express and carefully drawn contract provisions the latter would normally be the fate of the retention fund. But the standard form of sub-contract for nominated sub-contractors expressly provides by Clause 11(h) that "if and to the extent that the amount retained by the employer in accordance with the main contract includes any retention money the contractor's interest in such money is fiduciary as trustee for the sub-contractor." The power of this provision was the other important point decided in the *Tout and Finch* case; the general creditors there contended that the whole of the retention fund of the employer was payable

(Concluded on page 936)

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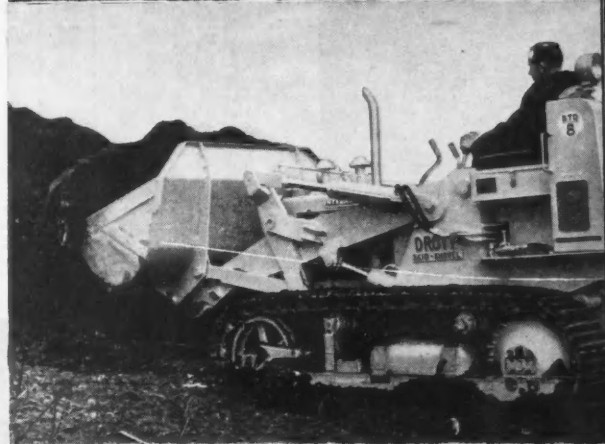
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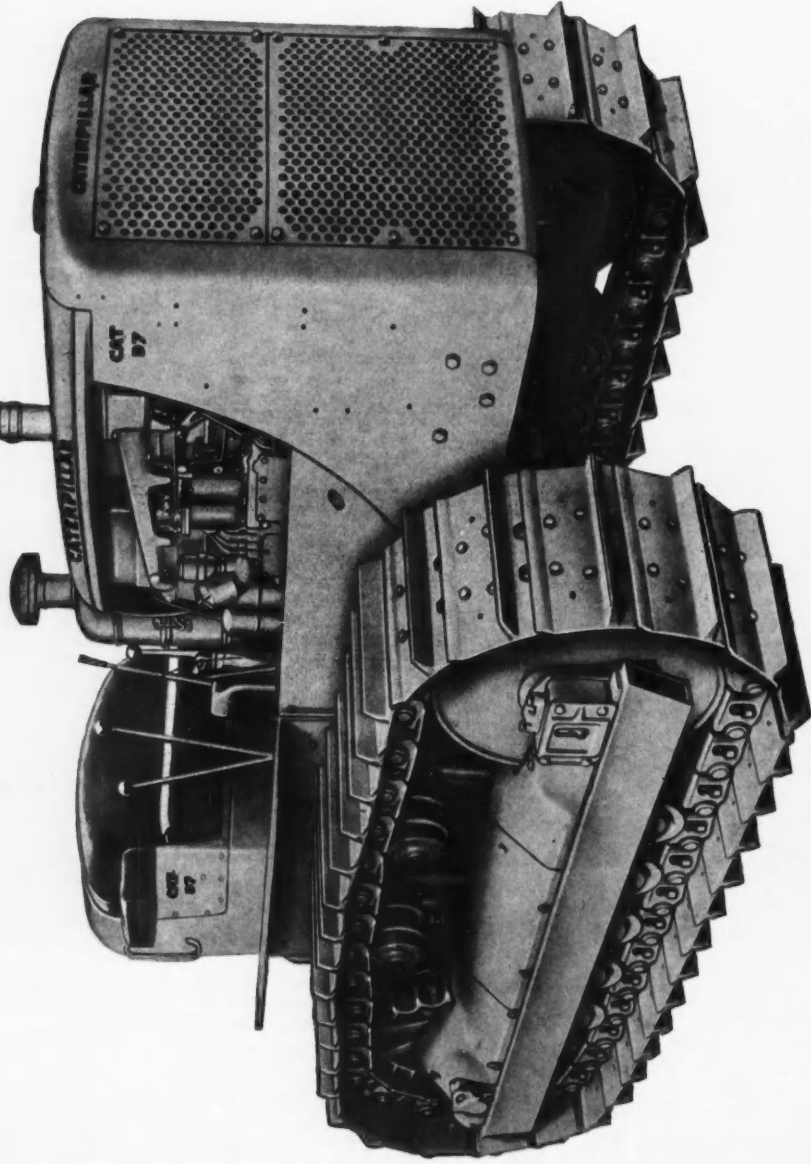
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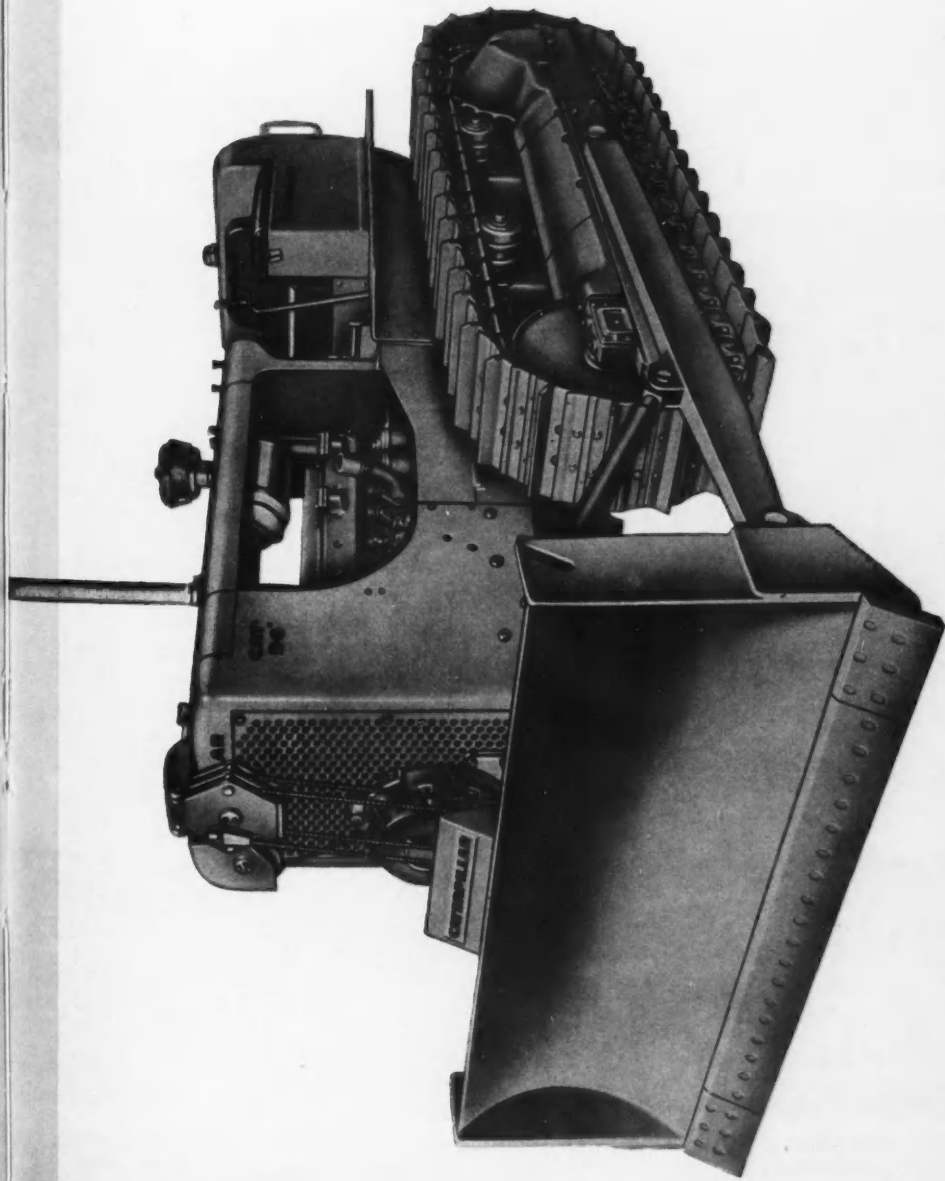
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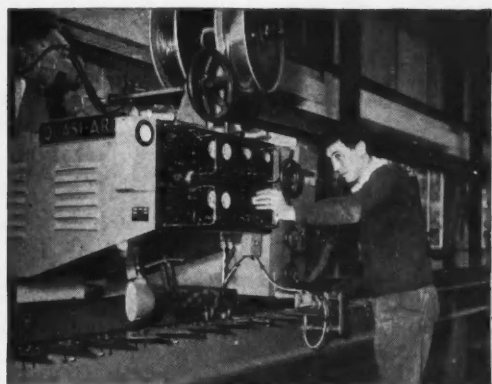
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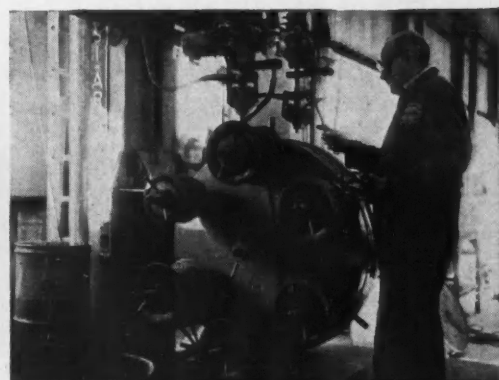
A close up of the track link machines showing the new Quasi-Arc automatic Welding Heads and Control Panel. The adjustable templates, together with the "Magic-eye" which controls actual welding operations, can be seen attached to the machine bed.



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HAMPSHIRE COMMITTEE REPORT ON HIGH BUILDING COSTS

"Recent Tenders Show Alarming Increase"

IN a report to the County Council, Hampshire County Finance Committee state that recent tenders have shown an alarming increase in cost and a general lack of interest by builders in tendering for council work.

"The rise in contract prices in recent months appears to be much higher than any increase for which proper negotiated labour costs would account," says the report. "Nationally, it is estimated that there is sufficient work for 2,000,000 operatives and only 1,250,000 are available.

"In past years, during the period of building licences, the Government assessed the amount of work permitted against the available labour force, and generally speaking, this maintained a balance, especially in places where labour was not plentiful. Today the building labour force has not increased and, in fact, many of the unskilled workmen are tending to leave the industry for cleaner factory jobs. There is no control of building except through the capital investment programme, which of necessity is related to national conditions rather than local circumstances, and applies only in the public sector. The erection of houses for sale, and offices and other private buildings is unlimited.

"The building industry quickly felt the general shortage of skilled labour in trades such as bricklaying and carpentry, a shortage which has the effect of causing contracts to last much longer than would normally be necessary if more skilled labour was available. Due to this shortage there is definite competition amongst the contractors themselves to persuade this skilled labour to work for them, and it has generally been found that the average skilled tradesman does not like to travel any great distance to his work and many will leave their employment rather than have to travel away from the vicinity of their homes. This has a marked effect on school building in a rural county such as Hampshire.

Rates of Pay

"The negotiated rate of pay for a tradesman today is 5s. and for a labourer 4s. 4½d. per hour for a 44-hour week. In October these figures will be increased to 5s. 6d. and 4s. 10½d. for a 42-hour week and in specialist trades there has recently been a wage award to electricians increasing their pay from 4s. 11d. to 6s. 2d. an hour. These new rates are undoubtedly justified in order to retain the operatives in the building industry against competition from factories and such like.

"Unfortunately, these rates and hours of work bear little relation to some of the offers that are made to tradesmen, and there are instances of tradesmen demanding and getting 7s. 9d. an hour for a guaranteed 60-hour week which represents a weekly earning of something in the region of £25. Offers above this have often been accepted by tradesmen knowing full well that the particular job would last for a comparatively short time, but such is the labour situation that they know that they are able to get work anywhere they like as soon as a particular job is finished. At one school in this county, in one week the contractor lost all his carpenters overnight, and on investigation it was found that they had gone to work at a very high rate of remuneration on a special job which had to be ready in time for the summer holiday period.

"There is a shortage of such tradesmen as bricklayers. This has had the effect of forcing architects to use other forms of construction which is unfortunate because it is generally agreed that one of the most

economical forms of building, if the labour is available, is still "bricks and mortar." Again it is known that in certain parts of the county large contractors have come into the area bringing with them London labour at London rates and have been taking local labour by paying 2s. or 3s. per hour over the approved rates, and this in turn compels the local contractor to pay the same rate to retain his men.

"On top of the abnormal rates of pay there are incentive and bonus schemes, travelling and lodging allowances that are all paid to the workmen to encourage them to leave their homes to work on a specific project, and there is a tendency also for contractors, and mainly sub-contractors, to pay their men on a salary basis rather than piecework rates, as was done for trades such as "felt roofing," and whilst this has undoubtedly improved the standard of workmanship for this type of work it is costing more in the end.

"It is very difficult to assess the abnormal payments made under wages and in many contracts large sums of money, anything up to £10,000, are inserted in the preliminary clauses of the Bill of Quantities to cover all these items so that it does not show in the Bill rates against the various trades.

"Such items as National Insurance contributions, holidays with pay contributions, new pension scheme, increased vehicle tax and increased interest on overdrafts have all increased, and at the same time this has called for more administrative staff in the builders' office which all adds to the overheads and has the effect of raising the cost of building.

Tendering

The building industry today is so overloaded that it is becoming increasingly difficult to get any firm to tender for a contract. An analysis was made of the last 20 main contracts tendered for in the County Architect's office, when it was found that following advertisement 14 contractors only were interested, on an average, for each job, and that after writing personal letters to many contractors the average rose to only 3.4 contractors, some of whom may have submitted prices only to oblige the county council.

"One reaction which has been found amongst contractors generally is that school contracts are not usually liked, as they contain very much more detailed work than the average factory or other similar work, and most contractors are rather suspicious that the Ministry of Education tend to keep the cost per place unnecessarily low; this is possibly justified when comparing a school in the centre of a thickly populated area and one in a country district miles from any centre, where obviously the builder has to transport his labour, and it will undoubtedly cost more and consequently the cost is spread over the two. It is safe to say that most contractors will only undertake school work on a competitive basis if they cannot find more lucrative work elsewhere, such as housing and factories, and it must be borne in mind that the standard of specification and supervision given to schools is much greater than that likely to be given to a factory, for which the date that it goes into production is more important probably than the final cost.

"Recent events have shown that there is a great threat to fixed-price tendering, and the council have suspended such tendering for the time being, but it is hoped that as soon as wages and prices become stable enough, it will be possible to return to this type of tendering. One

of the great difficulties that causes the builder much concern is the unwillingness of nominated suppliers to give quotations, and this has no doubt been brought about by the unstable wage situation and the rise in prices of coal and other basic commodities. At the same time at certain periods of the year shortages are experienced in such materials as bricks and cement, which can present a serious delay on a contract and against which the builder tends to cover himself.

"If firms are encouraged to submit prices through the process of selective tendering it enables builders to set aside adequate resources for development and education and improvement of techniques. A better job emanates from this type of tendering. A further development of this, which is being tried most successfully in other counties, is serial tendering whereby a selective list of contractors is approved to tender for a school in a certain type of construction, with the promise that, subject to satisfactory progress and workmanship, other contracts will be automatically negotiated with them by means of extending their contract to cover other schools in addition to the first one. Generally speaking, it is found that this makes for more competitive tendering in the first case, and some authorities using the C.L.A.S.P. system have done this with great success.

Annual Building Programmes

"Whilst there is now some improvement, especially on the part of the Ministry of Education, whereby school building programmes are known for more than one year, there is still a tendency, due to Ministerial delays and lateness in producing approval of programmes, to drive many of the last jobs into a relatively few months in the latter part of each year and it is felt that this must have an effect on tendering generally.

"Many of the larger builders in Hampshire find themselves literally inundated with Bills of Quantities over a very short period of time, making it quite impossible for them to complete the data for tendering or, in fact, even to consider tendering for all the jobs that are offered to them. At the moment, the County Architect's Department is trying to programme the whole of the work in the Department to avoid this happening, and the Ministries are being asked to co-operate. This point is often aggravated by Ministries producing an extra job for various Councils at the last possible moment in the financial year when they find that they have money available owing to other authorities not taking up money allocated to them, and this again tends to create a peak period just before the end of the financial year when many jobs find their way out to tender.

Retention Moneys

"The amount of money held in retention on several large contracts being undertaken by one firm of contractors can amount to a very substantial sum, and whilst it is absolutely essential to have such sums, one point that the Builders Federation are always making is that such retention sums should be kept to the minimum. This can only be done by selecting good contractors and by both the architect and the contractor applying good preplanning and carefully progressing the contracts. Again the settlement of final accounts is another important factor in ensuring that moneys are not outstanding for any considerable period.

"The obvious conclusion must be that the law of supply and demand is operating, and that there is too much work chasing

too few building operatives, thereby causing the contractors to select which work they wish and also causing them to pay abnormal rates to attract the tradesmen. There is a tendency for all contractors to cover themselves handsomely so that the old contractual risk has practically disappeared from building. It would appear that the only answer here is to produce throughout the country a realistic building programme which would relate the quantity of building to the available labour force.

"More representations to be made to the various Ministries to give a two or three year programme at all times, so that the work can be spread more evenly over the period to ease the task of the architect and quantity surveyor, and to encourage contractors to give more competitive and realistic tenders.

"There is much the building industry themselves could do by making a united effort as a body by adhering to wage rates freely negotiated and agreed in the National Joint Councils.

"Consideration could be given to increasing the use of selective and serial tendering, coupled with good preplanning both by the architect and the builder, and a return to fixed-price tendering, a maximum release of retention money and an early settlement of the final account, which involves the agreement of all concerned including the contractor.

Civil Engineering Work

"A report of this character would not be complete unless it included some reference to the cost of civil engineering work. The County Council are concerned directly in respect of the work which is carried out on roads. In this case, part of the work which they undertake is done by direct labour where the costs reflect the level of wages and of the price of materials which are purchased. The actual cost of any improvement scheme further depends upon the efficiency of the organisation which, to a large extent, governs the productivity of the labour employed. The

increase in wages and in the cost of materials has to a considerable extent been offset by increased productivity, with the result that the level of costs has risen to a relatively small extent. In the case of work which is put out to contract, the increase in the amount of the tenders received represents an amount of about 15 per cent. over the last two years, and the reason for this is undoubtedly that there continues to be considerable competition among the firms equipped with the necessary plant to enable them to undertake road improvement work.

"The County Council are also indirectly affected by the cost of sewerage, water supply and coast protection schemes undertaken by county district councils with the aid of grant from the County Council. At the present time, little coast protection work is being undertaken and it is not, therefore, possible to make any comparisons which would illustrate the rising costs.

"The position in respect of sewerage and water supply schemes is, however, positively alarming. The following examples are taken from schemes considered by the Committee at their meeting this month. The scheme submitted by the Kingsclere and Whitchurch Rural District Council for the sewerage of Hurstborne Priors and St. Marybourne was in 1950 estimated to cost £60,000; in 1960 the estimate had risen to £119,200, and today to £172,000. In February, 1959, the Ringwood and Ford-bridge Rural District Council submitted a scheme for the reconstruction of the sewage disposal works at Ringwood at an estimated cost of £92,300. A revised scheme has now been submitted which, in addition to the reconstruction of the sewage disposal works, includes the laying of certain relief sewers and of new sewers to serve some 525 houses at present unsewered. The cost of this revised scheme today is estimated at £395,000, of which £176,000 is attributable to the cost of the sewage works.

"In May, 1958, the Lymington Borough Council submitted a scheme estimated to

cost £54,555 for the improvement and enlargement of the Barton sewage disposal works. The lowest tender recently submitted for this work amounts to £107,550. At Romsey, the Borough Council submitted a scheme two years ago for the expansion of the sewerage system for the Borough and the reconstruction of the sewage disposal works; the net cost was then estimated at £226,000. The net cost of this scheme today, based on the lowest tender, amounts to £398,500. In this last case, the Minister of Housing and Local Government has approved of the acceptance of the tender, which appears to indicate that he is satisfied that the cost is reasonable.

"The rise in wages and prices, steep though some of them have been, would not of themselves explain or justify the excessive rise in tendered or estimated costs when compared with a year or two ago. Inevitably the conclusion must be that there is more than sufficient work available for contractors engaged in this branch of the civil engineering industry, and that the element of competition, which is so vital in order to ensure fair and reasonable prices, no longer exists in the circumstances and the conditions which prevail in Hampshire today. Taking the situation overall, there would appear to be an urgent need to reduce the overall volume of work to bring it more nearly into balance with the resources, particularly of labour, necessary to carry it out, and unless this balance can be restored the public are going to have to pay a good deal more for work which needs to be put out to contract than is really justified by the value of the work."

NEW TENDERS SOUGHT FOR WATER SCHEME

East Devon Water Board propose to invite fresh tenders for part of the Wilmington Rural Development Scheme which was officially advertised in *The Contract Journal* of June 8.

The Board received four tenders for two reinforced concrete service reservoirs, of 150,000 gallons capacity, a treated water tank and mainlaying. All were considered to be excessive and the Board have now made application to the Ministry of Housing and Local Government for authority to invite new bids for three circular prestressed concrete reservoirs of about 67 per cent. greater capacity than those originally proposed. Authorisation has also been sought for permission to carry out the mainlaying by direct labour.

A contract for another part of the scheme, put out to tender at the same time, has been placed with Staverton Contractors, Ltd., Totnes. This is for a brick-built pumping station and a brick and concrete treatment plant building. The tender amounted to £13,910.

BUILDING ACTIVITY FALLING OFF PRIOR TO CHANCELLOR'S MEASURES

There is an uncomfortable feeling that just when the Chancellor of the Exchequer is likely to impose measures which are intended either directly or indirectly to reduce the level of building activity, the latter may now be beginning to level off and even to fall away a little on its own accord, states the bulletin of the National Council of Building Material Producers.

For nearly three years the expansion of building activity has been sufficiently marked to have left little doubt as to where the building industry was heading, but at the present time the statistics are beginning to indicate that a change of pattern and perhaps of direction is already taking place in the private sectors of building. Some of the building materials industries are already noticing that demand is beginning to slacken and many others would agree that the curve of demand is no longer rising as steeply as it did a short time ago.

TRAFFIC CONGESTION REDUCED AT SALE

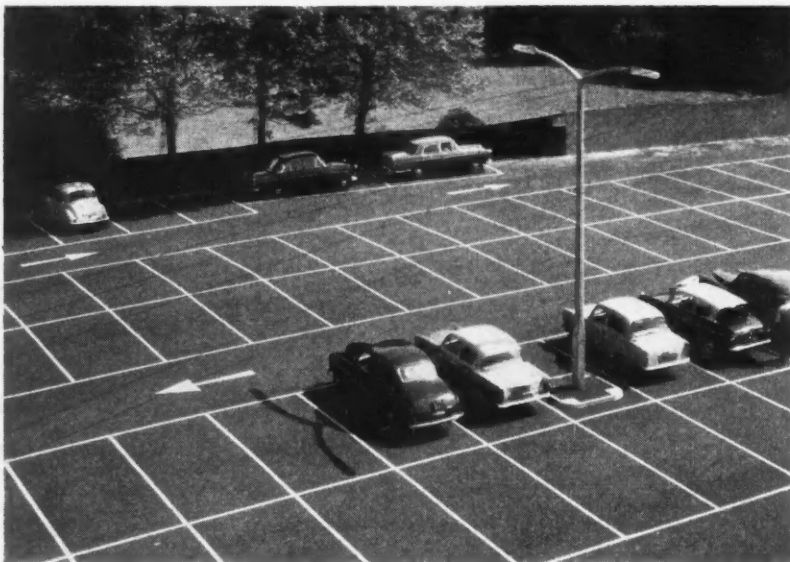
IN an effort to reduce traffic congestion in the main shopping area, the Borough of Sale have provided a car park to take 116 cars on a site very close to that area.

An oil resistant surfacing of two-course slag dense tar surfacing was supplied and laid by Tarmac Roadstone, Ltd., on a consolidated foundation of broken slag. The surfacing consisted of 2½ in. thickness of

1½ in. nominal size D.T.S. base course and 1 in. thickness of ¾ in. nominal size D.T.S. wearing course.

Owing to site difficulties, a certain amount of hand spreading was unavoidable, and consequently the viscosity of the tar was reduced to 48.5 deg. C. e.v.t.

Mr. R. B. Butterworth, B.Eng., A.M.I.C.E., M.I.Mun.E., is Sale borough engineer and surveyor.



The completed car park

DIRECT LABOUR IRREGULARITIES

Importance of District Audit

The article "Direct Labour by Local Authorities—the Facts, Arguments and Counter-arguments," which appeared in our issue of July 27, has prompted the following observations from one of our readers.—EDITOR.

THE author of *Building by Direct Labour: A Critical Analysis*, Mr. I. Ernest Jones, was somewhat doubtful whether a District Auditor is really in a position to detect irregularities in the accounts of direct labour departments, and quoted in support of his view the statement of the Manchester City Architect that "auditors cannot be expected to understand all the technicalities of the building trade." As the district audit is, where and to the extent that it operates, the only independent check upon the correctness of direct labour accounting, it is therefore satisfactory to find that it is capable of unravelling and bringing into the open irregularities in those accounts.

In the Manchester case, which was fully reported in Chapter 7 of *Building by Direct Labour: A Critical Analysis*, the Town Hall Committee stated in its report dated February 22, 1960, that it had found evidence of "deliberate falsification of time sheets and of manipulation of the records of a delivery of materials of which the object has been to conceal over-spending on capital jobs which have been obtained by the Works Department in competition with contractors."

The disclosures made to the Manchester City Council gave rise to suspicions that the accounts of direct labour departments are "adjusted," whenever necessary, in order to avoid showing serious losses on works carried out by those departments. These suspicions will be greatly strengthened by happenings recently revealed in the City of Stoke-on-Trent.

The District Auditor's report dated March 28, 1961, on the capital accounts of the Stoke-on-Trent City Works Department has laid bare a state of affairs which is broadly parallel with the situation which existed in the Manchester Town Hall Works Department, the sums involved, however, being considerably larger than those quoted in the Manchester report.

The District Auditor reported:—

"At the commencement of the audit I was informed by the Town Clerk and the City Treasurer that an investigation into the accounts of the City Works Department had disclosed wrong allocations totalling £2,560 11s. 7d. in respect of Educational Capital Works. . . . In consequence of this information I considered it necessary to give special attention to the accounts of the City

Works Department. . . . Further wrong allocations have been discovered totalling £3,738 9s. 11d., of which sum £3,533 17s. relates to wages and £204 12s. 11d. to invoiced expenditure on materials and services."

The total amount wrongly allocated over a period of more than two years, was thus £6,299 1s. 6d. (A further sum of £5,084 5s. 1d. in respect of the hiring of heavy plant had been wrongly allocated to the Housing Accounts instead of to the Education Accounts, but the District Auditor found it possible to accept the explanation of the officers concerned that this misallocation was the result of misunderstanding.)

The investigation showed that various invoices had been altered in the City Works Department; in one case the name of a school contract which should have been debited with a payment of £1,000 had been erased by someone in the Department and the name of a housing contract inserted. The ostensible cost of the same school contract was later further reduced by the allocation of a further payment of £1,250 to a different school extension job. The District Auditor's report continues:—

"The method used to effect the mis-allocation of wages and expenditure was quite simple. Daily time sheets showing full details of hours worked on specific jobs were made out by each employee. These daily time sheets were summarised by the clerical staff of the City Works Department onto weekly sheets. These weekly time sheets formed the basis for payroll preparation and allocation of charge by the City Treasurer's Department. Whenever wages expenditure was to be wrongly allocated, the staff concerned were instructed to enter an incorrect contract code number, or on occasions to alter the correct code number already entered."

"These malpractices commenced in 1957 and were discontinued before they had been discovered, in January, 1960. It is necessary to add that they were entirely deliberate, where initiated by the Building Manager and his Deputy and were effected, under instruction, by the staff of the Capital Works Building Section of the City Works Department. They were designed to ensure that where the cost of capital works carried out by the Department, particularly those relating to Education, had exceeded or was likely to exceed the so-called 'contract' price, the excesses would not show in the accounts and would not be disclosed to

the City Treasurer nor to the Committee concerned. The principal officers of the City Works Department including the Chief Officers named above were interviewed during the audit. They confirmed the accuracy of the foregoing statements and each accepted his individual responsibility."

"The Building Manager and his Deputy further stated during the audit that they had discontinued these practices of deliberate misallocations as a result of the publication of a report upon an investigation into the Works Department of another local authority, which caused them to realise for the first time the serious view which might be taken of their actions. They do not seem to have appreciated earlier that by devising and executing these deceptions and by instructing subordinate staff to carry them out over a period of several years they were breaking through principles and habits of conscientious accounting and respect for facts upon which the Corporation have to rely for proper administration, and furthermore that they were creating an instrument capable at any time of more serious misuse, thus adding to the normal risks of affecting the Council's funds. Fortunately it can be stated that neither during the investigation of the City Treasurer nor in the later investigation at audit has any suspicion emerged of action of fraudulent kind."

This case, following as it does so quickly on the Manchester case reported in *Building by Direct Labour: A Critical Analysis*, would seem to justify entirely the general scepticism of any claims by local authority direct labour departments to have saved the ratepayers money by direct labour building. It is perhaps significant that, until the Manchester affair erupted, the officials concerned were quite unconscious that their practice of juggling with the figures in order to delude not only the ratepayers but also the City Treasurer and the responsible committees into believing that the direct labour department was saving money on each and all of the projects entrusted to it was not perfectly legitimate. Ratepayers throughout the country are entitled to ask: "Are the same practices being adopted in our town?"

The Stoke-on-Trent case is indicative also of the importance of the district audit being applied to all county borough councils and municipal borough councils, which, under the existing law, are free to choose whether or not the bulk of their accounts should be subject to such audit.

NEW DETERGENT MATERIAL WOULD REDUCE FOAM NUISANCE

IF the present type of household detergent were replaced on a national scale by a new "soft"† detergent material now being tested, the concentration of residual detergent present in various rivers and canals would be reduced by about half and the volume of foam would be appreciably diminished.

The fourth progress report of the Standing Technical Committee on Synthetic Detergents* presented to the Minister of Housing and Local Government says that where such foaming is now occasional or comparatively light, it would probably be eliminated entirely. Where it is moderate it is likely to be noticeably

reduced, but where there is copious and persistent foam any change might not be obvious. Local conditions influence the formation and accumulation of foam in rivers and canals and it would not be easy to make a reliable prediction of the effect at any individual place.

Results of Tests

The report gives further details of the results of tests carried out on the new synthetic detergent material at Luton and elsewhere, the earlier accounts of which were described in previous reports. It notes a decrease in the amount of detergent concentration in sewage effluent at a number of sewage works in the south of England over the past two years, the period in which commercial detergents containing

the new material have been on sale in the south of England. Investigations into the behaviour of the new detergent material are continuing.

It goes on: "We are satisfied that the recent changes we have referred to in sewage works in southern England are the consequences of the replacement of a considerable proportion of the hard material by the soft in the sewage draining to these works."

The report says later: "Whatever the outcome of the investigations we consider that further development for improvement of the synthetic detergents now in use is necessary to achieve the ultimate solution envisaged by the Jephcott Committee."

† A "soft" detergent is one more readily decomposed by bacteria in sewage processes and in rivers.

*Fourth Progress Report of the Standing Technical Committee on Synthetic Detergents. H.M. Stationery Office, price 1s. 6d.

POWER STATION PROPOSED AT FAWLEY

THE Central Electricity Generating Board are to apply to the Minister of Power and the local planning authority for consent to the establishment of an oil-burning power station at Fawley, on Southampton Water.

The proposed station would make use of reclaimed land and saltings, and no part of the site would encroach on the modified boundaries of the Green Belt suggested by the Minister of Housing and Local Government.

Result of Investigations

In December, 1960, the Generating Board gave their reasons for deferring a decision about seeking consent to establish a nuclear power station at Hamstead, on the Isle of Wight. They stated that they were investigating the alternative possibility of building a conventional power station on Southampton Water.

It is as a result of these investigations that the proposals for a Fawley power station are being made, and if consent is obtained to such a station then consideration of the establishment of a nuclear power station at Hamstead on the Isle of Wight can be deferred.

The site at Fawley is suitable for a station of approximately 2,000 megawatts capacity. To meet the growing electricity demand in the south of England the first generating unit will be needed in 1967.

Oil is the most economical fuel for electricity generation in this area, and local generation using oil would not only supply electricity to the southern counties as cheaply as by generation in a remote coal-field station, but also avoid long transmission lines from these remote areas, to which there are objections both of amenity and cost.

Overhead Line

It is proposed that the station should be connected to the national grid by an overhead 400,000-V line running northwards and by undersea cables to a line on the opposite side of Southampton Water. The routes of these lines have yet to be discussed with the local planning authority and interested bodies before applications for consent for them are made to the Minister of Power. The possibility of reducing the number of lower voltage lines on the west side of Southampton Water is being investigated.

PRIVATE HOUSE BUILDING

Result of M.O.W. Inquiry

THE Ministry of Works has recently carried out the third inquiry into private house building. The result shows that private firms engaged on building houses for sale on their own initiative started work on 59,000 houses during the first half of this year, and expect to start 60,000 houses during the second half of the year, making a total of 119,000 houses for the year as a whole.

In the previous inquiry held in November last year, contractors expected to start 131,000 houses during 1961: the main reasons for the shortfall this year were stated to be delays in planning consents, shortages of land, and purchasers' difficulties in obtaining mortgages.

Contractors were asked if they could estimate how many houses they would start in 1962. The great majority of firms replied to this question, and it appeared at the time of the inquiry that builders expected that there would be little change in their programmes next year. Since then, the Chancellor's economic measures have been announced, and these may affect future programmes.

£480,000 CONTRACT AWARDED TURRIFF CONSTRUCTION

British Hydrocarbon Chemicals, Ltd., acting through the engineering division of the Distillers Co., Ltd., have recently awarded a £480,000 contract to Turriff Construction Corporation, Ltd., for the erection of various buildings for their new factory at Baglan Bay, Swansea.

Work is expected to commence on September 1, and includes a building block, workshops, canteen, administration and works offices, chemical stores, fire station and other buildings.

The D.C.L. engineering division were responsible for the design of the buildings, in collaboration with their consultant architect, Mr. M. Patrick, A.R.I.B.A.

M.6 SERVICE AREA

Mr. Ernest Marples, Minister of Transport, has announced that Motorway Services, Ltd., of London, have been awarded the contract for the development of the Charnock Richards (Lancs.) Service Area on the Lancashire section of the Birmingham-Preston Motorway.

R.I.C.S. TO RAISE STANDARDS OF ENTRY

THE Royal Institution of Chartered Surveyors announce that the minimum standards of entry to the professional examinations of the Institution will be increased with effect from October 1, 1962.

The new minimum standard will be passes in the General Certificate of Education at Ordinary level in five subjects at one sitting, or in six subjects at not more than two sittings. At present, the minimum requirements are passes in five subjects, of which only three need to have been passed at one sitting. Passes in English Language and Mathematics will continue to be obligatory.

Special provisions will be made to attract candidates with passes at Advanced level in the General Certificate of Education. The requirements will be: (i) Passes in one subject at Advanced level and four other subjects at Ordinary level, to be obtained at not more than three sittings, and to include English Language and Mathematics; or (ii) passes in two subjects at Advanced level and two other subjects at Ordinary level, to include English Language or English Literature, and Mathematics; or (iii) passes in four subjects, including at least three at Advanced level, to include an English subject, and either a Mathematical subject or a Science subject.

A leaflet giving particulars of the requirements in the General Certificate of Education and other certificates of equivalent standard is available from the R.I.C.S., 12 Great George Street, London, S.W.1.

LEYLAND CONSTRUCTION'S £115,000 CONTRACT

The Industrial Estates Management Corporation for England (Western Division) have placed a £115,000 contract with Leyland Construction Co., Ltd., Leyland, Preston, for site levelling and land drainage at Speke No. 2 Factory for Standard-Triumph (Liverpool), Ltd. The work comprises over 560,000 cu. yd. of excavation and 8 miles of field drains.

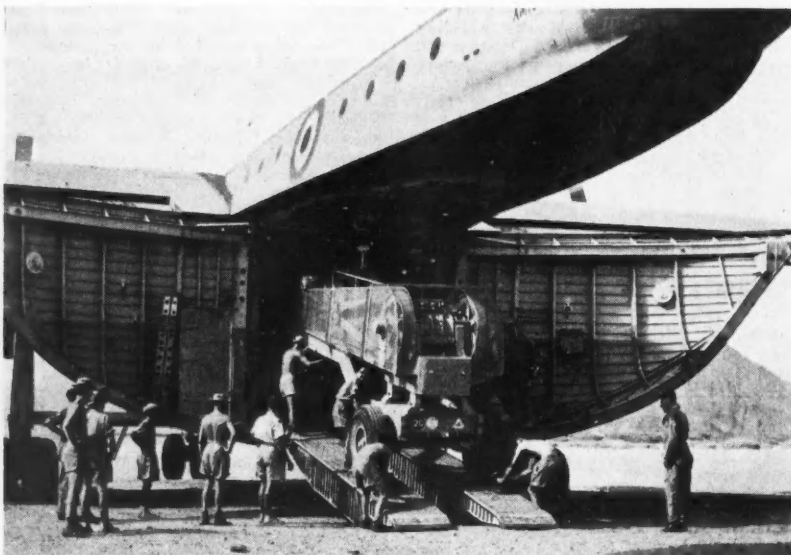
ST. MARY AXE HOUSE

Davies, Bill and Partners, 15 George Street, Croydon, are the quantity surveyors for St. Mary Axe House now being erected in the City of London (*The Contract Journal*, Aug. 17). The consulting engineers are Faylor, Whalley and Spyra, 24 Harley Street, W.1.

(Concluded from page 932)

to the liquidator for the general benefit of all creditors. The nominated sub-contractor contended that the main contractor, and the liquidator who was now standing in his shoes, had a contract under which he had declared himself a trustee of such part of the employer's retention fund as was referable to the nominated sub-contractor's work and that trust was binding on him. The nominated sub-contractor was therefore, subject only to the conditions in the sub-contract being fulfilled as to the release of the sub-contract retention fund, entitled to the whole of that fund. The court upheld the sub-contractor's contention and once again the value of the standard form was shown. However it should be noted that the non-nominated sub-contract form does not contain similar provisions to Clause 11(h) quoted above and so the position of the retention fund under that contract is not as clear; probably it will have to form part of the sub-contractor's claim in the bankruptcy or liquidation.

From this brief and therefore incomplete account of the position of sub-contractors on bankruptcy or liquidation of the main contractor one main point emerges; the problem should be considered when the sub-contract is entered into and professionally drawn clauses to deal with the matter should be part of that sub-contract.



A 20,000lb. Pegson gravel crusher is slowly eased down the ramps of an R.A.F. Beverley aircraft at Beihan, in the Western Aden Protectorate. The plant was required by the officers and men of No. 5004 Airfield Construction Squadron, who are building a new 1,400yd. tarmac runway at Beihan, only three miles from the Yemen border. It was flown 120 miles from Aden

PROGRESS OF BRAY MAIN DRAINAGE SCHEME

From a Correspondent

EXTREMELY varied ground conditions, ranging from coarse river gravels, terrace gravels, morainal deposits, brick earth, running sand, clay and some chalk are among the features of the main drainage scheme now being carried out in an area between Maidenhead and Windsor for Cookham Rural District Council.

The scheme (consisting of four main branches serving Stud Green, Money Row Green and Holyport; Fifield, Bray; and Bray Wick, each of these branches having several sub-sections) involves the laying of some 13 miles of main drainage sewer and rising main and the construction of eight pumping stations, seven of which will assist gravity flow to the main No. 1 pumping station from which the crude sewage is pumped to Maidenhead for treatment.

The main branches are generally being constructed of 9in. Staveley spun-iron pipe with 15in. pipes where three main branches unite. Salt glazed pipes of 6in. diameter are being used mainly for the subsidiary branches, but where ground conditions are poor, 6in. diameter spun-iron pipes are used for this duty.

Open-cut Trenching

The majority of the work is being carried out in open-cut trenching, the caissons for the pumping stations being sunk in free air. On long, straight sections over gravel terrain, the trenches have been opened with Allen 16/60 and 12/16 trenchers and 19 and 22 RB's fitted with backacters where sufficient working room was available. In more restricted spaces, and where mobility is important, as over short lengths, JCB.4 hydraulic excavators are being employed to excavate the first 5ft. or 6ft. prior to the emplacement of BSP trench sheeting.

In these conditions where buildings are in close proximity to the line of the scheme, the piles are set up with guide and frame to form the first walling and are then driven with a No. 2 McKiernan and Terry compressed air-operated hammer, the compressed air being derived from Consolidated Pneumatic portable compressors. Trench struts are then set to ensure maximum support to the ground, the excavations being carried down between the struts by hand lashing to skips loaded out by Jones KL15 mobile cranes on hire from R. and M. Plant, Ltd.

Pumping

Of particular importance in the carrying out of the scheme is the provision of adequate pumping equipment which can alternately pump on snore and at full bore when sudden inflows are encountered. Pumping is required to be maintained continuously round the clock and to deal with the silt laden slurry arising from the excavations, extensive use is made of Sykes Univac pumps of 2in., 4in. and 6in. capacity.

The Holyport section was laid in particularly variable ground conditions and called for the exercise of considerable skill on the part of the contractor in modifying his technique rapidly from one short section to another. Thus for example, in the most southerly section of this part of the scheme, glacial morainal deposits were encountered consisting mainly of clay and sandy clay containing boulders of shelly limestone, epidiorite and other rocks foreign to the area, this giving way to clay farther south which in turn passed into sand containing hard cemented sandstone boulders.

The excavations here were driven in headings of 4ft. x 3ft. 6in. CP. FL18 clay spades being used to excavate the clay and sand whilst the solid sandstone sections and boulders required drilling with CP.32 drills and blasting before being trammed out. Headings were set out in both directions from the shafts, the drain-

age from the falling heading being pumped back to the shaft sump by a pneumatically operated CP.7 sludge pump. This sump also collected the gravity flow from the rising heading, its contents being handled by a Sykes Univac, working mostly "on snore."

Sinking of Caissons

In the sinking of the caissons for the pumping stations, considerable ground variation was encountered. They were in the main, sunk under their own weight except for No. 1 and No. 2.

At the main No. 1 station, the ground water level was some 17ft. above the base of the caisson excavation and some 5ft. below ground level. The caisson, of 20ft. 6in. internal diameter, with 18in. thick walls, was sunk through coarse gravel which provided an easy passage for large volumes of water, these being handled as excavation proceeded by the Univacs. On completion of the excavation, the necessary dry base for the construction of the pump station floor was formed by the emplacement of some 250 concrete bags, together with a system of radial land drains which led to a central sump. Into this sump were led two spigots of sufficient diameter to receive the pump suction hoses, the inflow of some 25,000 g.p.h. being well within the capacity of one 6in. Univac, leaving one to be kept running on standby to deal with any sudden inflows. The caisson was loaded with 50 tons of pig-iron and the 2ft. 6in. thick concrete floor was then poured. When the floor was formed, one spigot was sealed off, the remaining pump suction withdrawn and the caisson was allowed to flood. After a curing period of 14 days, the remaining spigot was sealed off by a skin diver and the caisson was pumped out.

An essential of this form of construction is the ability of the pump to prime within a few seconds of losing its priming for any reason. The force of the water entering through the spigot due to the 17ft. head

surrounding the excavation when the pumps were withdrawn was equivalent to a small artesian bore. As the 6in. Univac primes within 20 seconds on a 22ft. lift this inflow was always within the sump capacity.

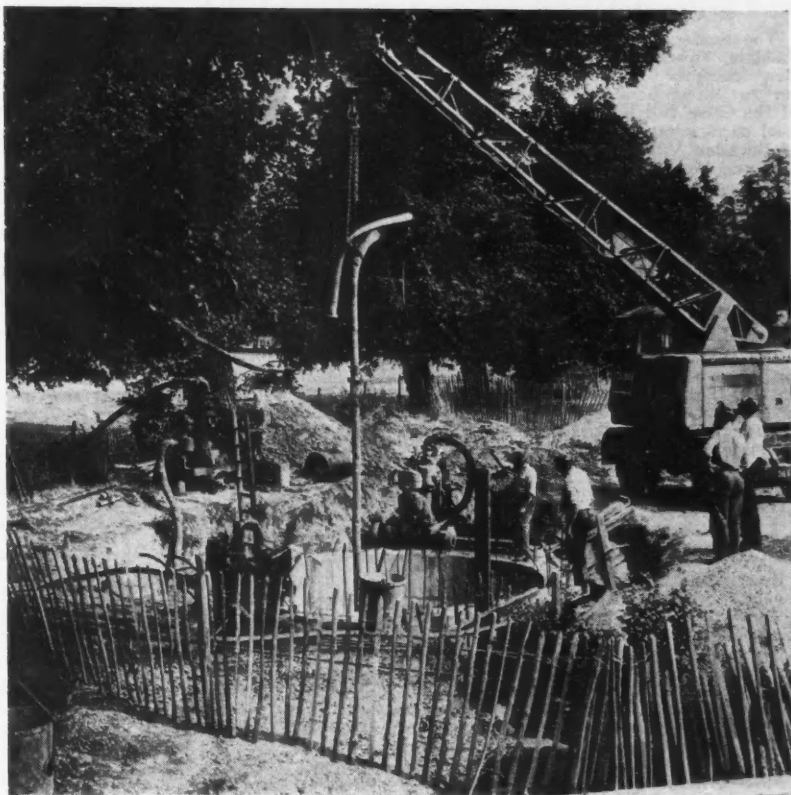
The site of No. 2 station was located on a stiff clay and the caisson here was also loaded to assist driving. Particular difficulty existed with the sinking of No. 3 station where a closely graded, boiling sand was encountered on the Holyport section. In order to provide a firm base for the laying of the caisson floor and to prevent the caisson from sinking further whilst the base was being excavated, a small Sykes well point system, consisting of 12 points, was jetted down inside the caisson, the jetting pump being a 2in. Univac. The points were connected to a 4in. main laid out in the form of a square and located 21ft. 6in. below the centre line of the 4in. Univac employed for dewatering. At the site of No. 6 station some chalk and ancient timbers were encountered, these being believed to be connected with a medieval bridge on the site, following an ancient ford. This station is located a little to the south-west of Bray Wick.

Stream Crossings

A variety of methods are employed for crossing the numerous streams encountered. These have included dragline excavation of the stream bed and emplacement of concrete bags by diver to form a bed for the pipes which were also positioned by diver; the diversion of the stream bed into a wooden flume whilst pipes were taken underneath and at one site, where the stream had a concrete bed, the pipes were taken under in heading.

Stewarts and Lloyds 5in. steel pipe, clad with fibre glass for frost and corrosion prevention and equipped with G.K.N. expansion joints were used at one crossing where the pipes were carried over on an existing footbridge. The pipes were

(Concluded on page 938)



Installing a Sykes wellpoint system 21ft. below pump centre line

£80M. POWER STATION**C.E.G.B. Invite Tenders**

The Central Electricity Generating Board are inviting tenders for the structural steelwork contract in connection with the construction of a new £80m. power station, to be built on land adjoining the existing A and B power stations at Ferrybridge, in Yorkshire.

The new C station, which is to have an installed capacity of 2,000 MW, together with another station to be built at West Burton, Yorkshire, will be the most powerful of its kind in Western Europe.

Four turbo-generators, each of 500 MW installed capacity, together with four boilers, each with an evaporative capacity of 3,450,000lb. p.s.i., 1,050 F., with reheat to 1,050 F., will comprise the main plant. Letters of intent have been issued for the supply of the boilers, turbines and condensers for the scheme.

Tenders are being invited for the site-works, and work is expected to commence in October. The station should be in commission by 1965. Tenders for the site electrical supplies have been submitted and are under consideration.

Consulting civil engineers for the scheme are C. S. Allott and Son, 20 Bedford Row, London, W.C.1.

U.K. FIRMS TO BUILD ARGENTINE DAM

The Government of the Province of Tucuman, Argentina, have signed a preliminary agreement with Richard Costain, Ltd., and English Electric Co., Ltd., for the construction of the El Cadillal dam, estimated to cost £7m.

Work is due to begin 60 days after ratification of the agreement and is expected to be completed within three-and-a-half years. It is likely that payment for the work will be extended over 10 or 12 years.

The dam will provide irrigation and electric power and will augment the fresh water supply to the city of San Miguel de Tucuman.

MONK AWARDED A.1 RECONSTRUCTION JOB

The tender of A Monk and Co., Ltd., Padgate, Warrington, at £391,182, has been accepted by Huntingdonshire C.C. for the reconstruction of a one-mile length of the Great North Road, A.1, to provide dual carriageways between the south side of Buckden Village and Buckden railway bridges. Work is to start immediately.

Carriageway construction will consist generally of granular sub-base, cement-bound granular base, and asphalt surfacing.

The Hunts. county engineer is R. E. C. Dorking, B.Sc.(Eng.), A.M.I.C.E.

OPEN DAYS AT WATER POLLUTION LABORATORY

The Water Pollution Research Laboratory is to hold open days on October 11 and 12, 1961, when it will show its work on development of methods of treatment of sewage and industrial wastes. Applications for invitations to visit the laboratory on these days must be sent to the Director of the Laboratory, Elder Way, Stevenage, Herts.

CHELSEA SEWER TENDERS

Referring to the report in last week's issue of *The Contract Journal*, with regard to the reconstruction of about 400yd. of brick sewer at Markham Square and Symons Street for Chelsea B.C., the recommended tender of £7,240 was that of D. R. Paterson, Ltd., 33 Granville Road, London, N.W.2. Other tenders received were as follows: Ruddock and Meighan, Ltd., £7,684; Caffin and Co., Ltd., £7,809; Fitzpatrick and Son (Contractors), Ltd.; £7,967; Alexander Thomson and Co. (London), Ltd., £8,446; W. F. Rees, Ltd., £9,348.

£2½M. ROOTES FACTORY CONTRACT

The Rootes Group have announced that a £2½m. contract has been placed with Melville, Dundas and Whitson, Ltd., Glasgow, for the construction of a new car factory at Linwood, Renfrewshire.

A statement issued by the Group says, "Construction work will start almost immediately, and although site preparation has been delayed by bad weather and technical problems, the contractors are confident that they can meet the Group building programme for the production of their small car."

An area of more than 750,000 sq. ft. will be covered by the buildings. The contract, awarded by the Industrial Estates Management Corporation, is the largest single item in the £4m. factory building programme due to be completed at the end of 1962.

B.R. RECONSIDER HALTING KINGMOOR SCHEME

Following their recent decision to halt work on the Kingmoor (Carlisle) marshalling yard scheme until next year, the London Midland Region of British Railways have now decided, after reconsideration, to allow operations to continue at a reduced rate. It is expected that approximately 50 per cent. of workers on the site will be dismissed.

British Railways originally planned to suspend the scheme for the £5m. marshalling yard because progress had been much faster than anticipated, and it was necessary to keep within the year's budget. The target date in 1962 will remain, and work will probably be resumed at the normal rate next year. Whatlings, Ltd., and Eagre Construction Co., Ltd., are the two main civil engineering contractors.

TENDERS TOO HIGH**Direct Labour Estimate Sought**

Durham Rural District Council have received four tenders for carrying out the proposed Kimblesworth sewerage and sewage disposal scheme, the lowest being that of Harbour and General Works, Ltd., Washington, Co. Durham, at £54,030. Before making a final decision, a direct labour estimate from the Surveyor is to be considered.

The consulting engineers are Waterhouse and Routhwaite, 165 Westmorland Road, Newcastle upon Tyne.

(Concluded from page 937)

secured to the bridge by Lindapter clamps to obviate the need for drilling the bridge.

Other ground conditions include the existence of moderate sulphate contents in certain sections of the work, notably in the Holyport area, the site of No. 3 pumping station being returned as containing 34.7 p.p. 100,000 maximum. Sulphacrete is accordingly used for the bottom of No. 3 pumping station and for beds to salt glaze pipe and base and surrounds to manholes in the Fifield area. Ferrocete is used for its rapid hardening qualities at the pumping station sites.

On completion, the pumping stations will be equipped with Pulsometer vertical spindle centrifugal sewage pumps ranging in capacity from 410 to 110 g.p.m. No. 1 station has been designed to accommodate four pumps, although initially only two will be required.

Engineers and Contractors

The contract is being carried out for the Cookham Rural District Council by Ruddock and Meighan, Ltd., the consulting engineers being Howard Humphreys and Sons. The engineer-surveyor of the R.D.C. is Mr. Alex. Mandeville, B.Sc., A.M.I.Mun.E., the resident engineer for the consultants being Mr. R. F. Sheffield, B.Sc., A.M.I.C.E. The agent for the contractors is Mr. E. I. Powell.

Work was commenced on the scheme in February, 1960, and it is scheduled for completion in July, 1962.

Late Construction News

READING OFFICES.—Selected contractors are now being invited to tender for the erection of an office building at Forbury Road, Reading, for the Prudential Assurance Co., Ltd. Plans are by the company's own staff and the quantity surveyors are Pritchard, Williams and Hunt, 40 Farnival Street, London, E.C.4.

DEVON WATER SCHEME.—The tender of Exeter Asphalt and Tarpaving Co., Ltd., Exhibition Way, Pinhoe Trading Estate, Exeter, has been accepted by the East Devon Water Board for the construction of a 500,000-gallon reinforced concrete reservoir and booster pumphouse at Roundball Hill. The contract also includes the building of a surge tank chamber and control house at Ottery St. Mary. Rofe and Raffety, 9 Brewer's Green, Buckingham Gate, London, S.W.1, are the consulting engineers.

HEREFORD SCHOOL CONTRACT.—Work will commence in mid-September on a new Roman Catholic primary school at Belmont Road, Hereford, for the Archdiocese of Cardiff. The contract, worth about £54,000, has been placed with Selleck Nicholls and Co., Ltd., St. Austell, Cornwall. Consultants for the scheme include: F. R. Bates, Son and Price, architects, 70 High Street, Newport; Davis, Belfield and Everest, quantity surveyors, 9 Ashley Place, London, S.W.1; and M. McCann, heating and electrical consultant, 11 Cathedral Road, Cardiff.

WALTHAMSTOW CONTRACTS.—Walthamstow B.C. have been recommended to accept the following tenders: Shops, offices and maisonnettes at Hoe Street Redevelopment Scheme—Robert Hart and Sons, Ltd., 121 Victoria Street, London, S.W.1, £190,281; 27 bungalows, 55 lock-up garages and tenants stores at Montalt Road, Woodford Green—Seivad, Ltd., 12 South-end Road, Woodford Green, £91,113.

HERNE BAY SEA WALL.—Herne Bay (Kent) U.D.C. are seeking the approval of the Ministry to accept the £148,464 tender of J. W. Ellingham, Ltd., West Cliff, Herne Bay, for the East Cliff coast protection scheme. The scheme includes the construction of 2,600 lin. ft. of sea wall with decking and back wall, mainly the encasement of existing works, together with 45 timber groynes. Lewis and Duviols, 14 Howick Place, London, S.W.1, are the consulting engineers.

HECKMONDWIKE BUS GARAGE.—An omnibus garage and offices are to be built at Swallow Street, Heckmondwike, for The Potteries Motor Traction Co., Ltd., Woodhouse Street, Stoke-on-Trent. George Horsfall and Son, Ltd., Liversedge, are the contractors. Plans have been prepared by the company's staff architect, William E. Gott, M.B.E., and quantities by J. S. Hammond, Cheapside, Hanley.

CHATHAM SCHOOL TENDERS.—Tenders are due in next month for the erection of the St. John Fisher School at Chatham, for the Southwark Diocesan Schools Commission. The school has been designed by David Stokes and Partners, 5 Cochrane Street, London, N.W.8. Davis, Belfield and Everest, 9 Ashley Place, London, S.W.1, are the quantity surveyors.

13-STOREY BIRMINGHAM BLOCK.—Tersons, Ltd., 4 Dollis Park, London, N.3, have been awarded a contract worth over £1m. for building Auchinleck House, Edgbaston, Birmingham, a 13-storey block of shops and offices. The promoters are The Murrayfield Real Estate Co., Ltd., whose architects are J. Seymour Harris and Partners, 3 Greenfield Crescent, Five Ways, Birmingham, 15. Work is expected to be completed by April, 1964.

SOUTHAMPTON DEVELOPMENT.—A 10- and three-storey development at Brunswick Place, Southampton, is to be undertaken for Rom Securities, Ltd., by Carlton Contractors, Ltd., Epsom, Surrey. Estimated to cost £300,000, the buildings have been designed by W. H. Saunders and Son, 22 Brunswick Place, Southampton.

FIRE-RESISTANCE OF FLOORS, CONCRETE-ENCASED COLUMNS AND PERFORATED BRICK WALLS*

A PROGRAMME of co-operative research is being undertaken by France, Holland and the United Kingdom under the aegis of the Conseil International du Bâtiment to determine the effect of restraint on the fire-resistance of floors.

The specimens in the first phase of the programme were constructed with precast reinforced concrete beams of hollow cross-section measuring 10in. x 5½in., obtained from a common source in Holland and finished with a lin. concrete topping. It was agreed that each of the participating laboratories should support and restrain the specimens by the methods they commonly used in tests on floors.

The following conditions were selected for the floors tested at the Fire Research Station. Loads were applied to the floors to produce similar maximum bending movements, with:

- (i) Ends simply supported, other edges free;
- (ii) ends longitudinally restrained, other edges free;
- (iii) ends under longitudinal and angular restraint, other edges free.

Using a limiting deflection as the criterion of performance to avoid continuing the tests until collapse of the floors occurred, the fire resistance under condition (i) was 51 minutes and under (ii) was 74 minutes, nearly 50 per cent. more. The test under condition (iii) was terminated by fracture of the webs of the hollow beams which occurred after 20 minutes, resulting in the separation of the lower part of the floor from the upper part. The latter together with the concrete topping was able to support the imposed load, the separated lower part acting as a ceiling to protect the load-bearing portion. For this particular type of floor the conditions of end restraint are critical, but from past experience it would seem that this does not apply to other floor constructions.

Owing to difficulties in using floor units obtainable in only one country, there is to be no extension of this part of the programme to other laboratories. It is pro-

*Extracts from "Fire Research, 1960." Report of the Fire Research Board with the Report of the Director of Fire Research. Published for the D.S.I.R. by H.M.S.O., price 5s. 6d., by post 5s. 11d.

posed to use instead solid slab floors of a construction to be agreed, sharing this investigation among other countries with facilities for testing.

Concrete-encased Steel Columns

The latest edition of B.S. 449 permits the concrete encasement used for the fire protection of structural steel columns to be taken into account, under specified conditions, in calculating their load-bearing capacity. Since concrete loses strength when exposed to high temperatures, the steel in the column will gradually have an increased proportion of the load imposed on it. A joint programme of tests is being undertaken with the Building Research Station to determine the effect of these changes in loading on the fire-resistance of steel columns.

The specimen columns, which consist of an 8in. x 6in. rolled steel I-section, protected as specified in B.S. 449, have been prepared and are undergoing normal maturing and drying in the laboratory. There are 13 columns in the programme, nine being intended to show the effect of the thickness of the encasement and the type of concrete on the fire-resistance. Three thicknesses of encasement 1in., 2in. and 3in. are being employed for this study using concretes made with siliceous aggregate (river gravel) and two types of artificial aggregate (foamed slag and expanded clay). Of the remaining specimens, three are to be exposed to standard fire conditions for predetermined periods and their residual strength in the hot state determined. The final specimens will be heated to failure with the load applied eccentrically. Similar specimens have been subjected to test under static loading to obtain comparative data.

Walls of Perforated Brick

The perforated bricks used for this investigation were developed by the Building Research Station for use in the construction of single-leaf external walls having the same properties of weather resistance and thermal insulation as the normal two-leaf cavity wall of clay bricks. With overall dimensions of 8½in. square by 2½in. high, the perforated bricks have vertical cells arranged in two groups connected together by four webs, and with 50-55 per cent. voids their weight is no more than that of a normal brick.

The programme of fire tests was undertaken as a joint investigation with the Building Research Station. Three types of brick were used, referred to as V5, V6 and V62, the last named being a later development with slightly thicker cell walls giving it improved strength. Six tests were made on load-bearing walls, 10ft. square, four specimens having a plaster finish on one face. The walls were tested under their design load simulating conditions of an internal fire, with the plastered face exposed to the fire. Brief details of the specimens, together with the test results are given in the following table:

Results of Fire-resistance Tests on Walls of Perforated Brick

Type of brick	Plaster finish on exposed face ½in. nominal thickness	Test load tons	Fire resistance grading h
V6	Cement/sand ...	60	2
V5	Cement/sand ...	50	2
V5	None ...	30	1
V62	None ...	80	1
V62	Perlite/gypsum ...	80	2
V62	Vermiculite/gypsum	80	4

* Specimen collapsed after 1 hour 12 minutes during the fire test and since it could not be subjected to the reload test after cooling, no fire-resistance grading could be assigned.

Compared with the fire-resistance of a solid brick wall of the same thickness the reduced resistance was not unexpected. With the exception of the V5 brick wall, plastering, in particular with vermiculite plaster, gave improved fire-resistance. The cement/sand and perlite/gypsum plasters, however, tended to spall from the backing but the vermiculite plaster remained intact throughout the test.

In relation to the fire-resistance standards set down in model by-laws of both the Ministry of Housing and Local Government and the Department of Health for Scotland, it appears that walls of either of the types of brick tested without plaster satisfy the standards for external walls of dwellings of not more than two storeys and of other buildings for which one hour fire-resistance is needed.

With appropriate choice of plaster, walls of V6 and V62 bricks gave resistances of two and four hours respectively, thus meeting the higher standards for other external walls.

LONDON'S FIRST PURPOSE-BUILT STUDIOS

£160,000 Contract For Cubitts

LONDON'S first premises of any size, designed specifically as commercial photographic studios are to be built for Woburn Studios, Ltd., at a cost of approximately £160,000.

The 31,500 sq. ft. studio at 29/31 Brewery Road, Pentonville, will be conspicuous in its surrounding of factories, workshops and small private dwellings, with its modern design and attractive dark red and white brick facade.

The three-storey building with a car park at the rear, has been designed to allow for maximum studio area, the largest being 4,250 sq. ft. Careful consultation has produced plans incorporating 6,500 sq. ft. of studio space, dressings rooms, workshops, property and storage rooms, etc., and waiting and reception areas into the ground floor alone, which measures only 150ft. x 70ft.

The main building is of reinforced in-situ concrete, clad in brickwork, and owing to the particular soil substance all the mass concrete bases are to be made with sulphate-resisting cement. Site clearance is at present under way and the building is due for completion in July 1962.

A transformer sub-station is to be

installed to help the heavy demand on the power supply.

Architects for the scheme are Fitzroy Robinson and Partners, 3 Gray's Inn

Square, W.C.1; the consulting engineers are: W. E. Budgen and Partners, 54 Queen Anne Street, W.1; and the quantity surveyors are Burley, Lane and Partners, 66 Great Cumberland Place, London, W.1.

The main contractors are Holland & Hannen and Cubitts (Great Britain), Ltd., 258 Gray's Inn Road, W.C.1.



Artist's impression of completed building

Men and Movements

THE Perkins group have announced that **Mr. T. H. R. Perkins** has been appointed assistant managing director and continues as marketing director of the group. Mr. Perkins joined the company in 1940. He has held office as export sales manager, director of overseas development, and general manager of the sales division. He joined the board in 1951. Three other new appointments have also been announced. **Mr. D. F. W. McNair** has been appointed deputy director of marketing of the group. He was appointed export sales manager in 1950, and general manager of the group's new products division in 1957. **Mr. J. M. Collins**, a director of Perkins Engines, Ltd., has been appointed general manager



T. H. R. PERKINS

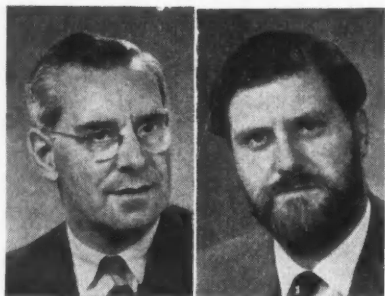


D. F. W. McNAIR J. M. COLLINS

of the Perkins group's sales division. Mr. Collins joined Perkins in 1954 and became export sales manager in 1957. In addition to his present directorships of Perkins overseas companies, Mr. Collins has been appointed a director of Perkins Outboard Motors, Ltd., and Perkins Gas Turbines, Ltd. **Mr. H. Lymath**, who joined the company a year ago to carry out special duties connected with parts and engine classification, succeeds Mr. McNair as group project co-ordinator. He was previously employed on projects work by the Ford Motor Co.

Mr. O. M. Jeavons has been appointed a working director of O. C. Summers, Ltd., following the recent death of Mrs. L. Summers.

Mr. E. S. Lower, managing director (research) and **Mr. N. R. Kirkby**, sales director, both of Croda, Ltd., are leaving by air from London to New York on September 2 for a three-week stay in the



E. S. LOWER N. R. KIRKBY

United States, most of which time will be spent with the sister company, Croda Inc. In addition to close liaison with Croda Inc., Mr. Lower and Mr. Kirkby will be visiting various United States industries.

Eimco (Great Britain), Ltd., have announced the appointment of **Mr. A. R. Hilton** to the post of mining projects engineer. He will advise on the application of Eimco machines for mining and civil engineering projects and will also be concerned with investigation into the requirements for and development of new equipment. Mr. Hilton was previously Eimco's technical representative in Lancashire and the West Midlands, and he is being succeeded by **Mr. A. Whitworth**, formerly an under manager in the north western division, No. 4 Area, of the National Coal Board.

The development of Britain's New Towns is to be studied at first hand by the Western Nigerian Minister of Lands and Housing, the **Hon. Mr. J. O. Adigun**, who will arrive by air in London on August 27, after visiting modern housing estates in West Germany, Berlin and Israel. In this country he will see several of the new towns and also discuss with private firms Western Nigeria's plans for aerial surveys to speed up development planning. He will leave Britain on September 5 to see Italian developments in the field of low-cost housing estates.

Following the retirement of **Mr. J. Scott** from James F. Low and Co., Ltd., **Mr. Wylie** has joined the company and will be responsible, as general manager, for the company's activities in textile equipment and contractors' plant.

Williams and Williams, Ltd., have announced two new appointments. **Mr. J. F. Wilkinson**, who recently joined the company as group cost accountant, is to be the new general manager of Roften Works, Hooton; he succeeds **Mr. E. B. T. Wright**, who has left to take up an appointment in the Far East.

The second appointment is that of **Mr. L. A. L. Brown** to the position of deputy general manager (technical) at Roften. Mr. Brown joined the company this year as technical manager.



T. C. IVENS

Mr. T. C. Ivens has been appointed sales manager and organiser of Hemel Hempstead Lightweight Concrete, Ltd. The sales office at Hemel Hempstead will also undertake sales administration for the network of subsidiary plants which will shortly begin production. Mr. Ivens was previously sales manager of Unity Structures, Ltd.

Mr. N. O. Morhaim, A.R.I.B.A., technical manager of Middlesex Prefabricated Buildings, Ltd., will be a delegate at the first International Conference on Timber Engineering, being held at Southampton University from September 18-23.

Mr. D. R. Walker, A.C.C.S., has been appointed secretary of the Vitreous Enamel Development Council, and the registered offices have been transferred from 11 Ironmonger Lane, London, E.C.2, to 28 Welbeck Street, London, W.1. The general manager of the Council is **Commander G. Clarke**, F.C.C.S.

Mr. J. O. de M. Hopper, oversea representative, Expandite, Ltd., leaves London on September 3 for a tour of Italy, Greece, Turkey, Lebanon, Pakistan, Ceylon, India, Burma, Thailand, Malaya, Vietnam, Hong Kong, Korea, Japan and Philippines. During his tour he will visit engineers, architects and distributors in these territories.

Six new sales representatives have been appointed by Bowmaker (Plant), Ltd., as follows: **Mr. J. Bernhardt** becomes representative in the Cheshire area, after several years as a logging contractor. Previously assistant sales manager with a Sheffield motor vehicle distributor, **Mr. J. A. N. Coates** has been appointed representative for part of South Wales, the new representative for West Wales being **Mr. A. E. Lewis**, previously in the timber trade. **Mr.**



J. BERNHARDT

J. A. N. COATES



A. E. LEWIS

G. H. FORD



R. L. TAYLOR

W. S. PRYKE

G. H. Ford, who has served with N.C.B. (opencast executive) and with Turf Construction Corporation, becomes representative in Warwickshire (excluding Birmingham) and part of Gloucestershire. In North Staffordshire, the new representative is **Mr. R. L. Taylor**, who has had civil engineering experience with John Mowlem and Co., Ltd. **Mr. W. S. Pryke** has been appointed the representative for the eastern portion of South Wales. He was formerly with Gailey Roberts (E.A.), Ltd., as assistant sales manager (industrial) in the agricultural department.

Mr. W. Morris, secretary of Colt Ventilation, Ltd., and its associated companies and **Mr. F. W. Price**, sales manager of Colt Ventilation, Ltd. and W. H. Colt (London) Ltd., have been appointed directors of the Colt associated companies.

Mr. T. Flather, formerly housing manager to Burton-on-Trent B.C., has been appointed architectural representative for John Hall and Sons, Ltd., in the Midlands area. **Mr. F. R. Mackay**, has been appointed assistant representative for the firm in the Warwickshire-Birmingham area.

TIMBER HYPERBOLIC PARABOLOID ON NORWICH SCHOOL

Use of Trofdek Lightweight Decking

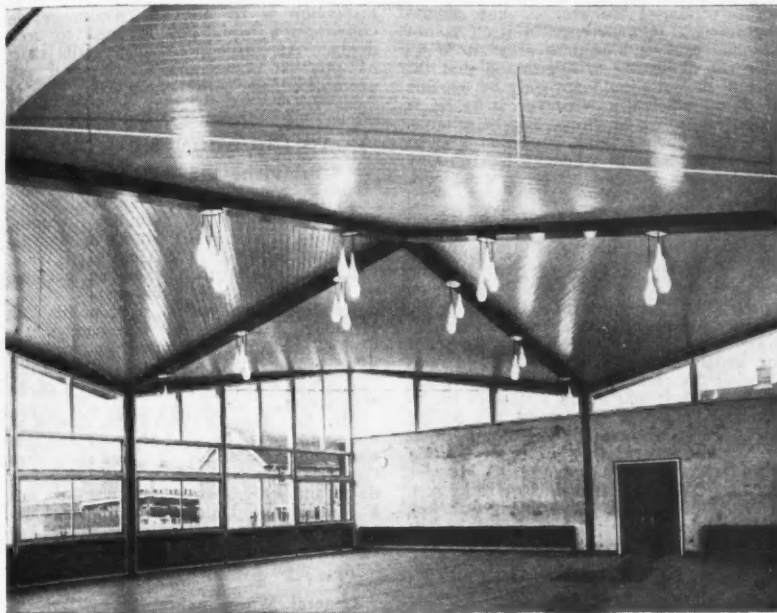
A HYPERBOLIC paraboloid spanning 48ft. over the assembly hall is the key feature of a new school recently completed at Norwich for the City Council.

The school is the Woodside Infants' School, which was designed by the city architect, Mr. David Percival, A.R.I.B.A. It uses Trofdek lightweight decking spanning cross-walls in 24ft. units for its general roofing and for the assembly hall.

This decking consists of built-up units of varying widths from 16in. to 48in. The

units are made by bonding plywood webs to softwood battens in the form of a trough section, and thus forming a strong unit, while keeping weight down to a minimum. The bonding process is carried out with Urea Formaldehyde resins. Battens at the top and bottom of the troughs use the same resin for scarf joints.

The plywood is 5/16in. Douglas sheathing grade which provides the necessary structural requirements. The completed units, being light in weight, can be erected extremely quickly without the need for special handling equipment.



Interior of the assembly hall

OLD PEOPLE'S DWELLINGS AT £850 EACH

Gregory Housing, Ltd., 21 Farthing Road, Worthing, have circulated to local authorities new designs for old people's dwellings which may be erected at a contract price between £825 and £850.

The individual accommodation consists of a bed-sitting-room bungalow with its own kitchen. Every unit is entirely self-contained with a front door opening on to a passage shared by the adjoining bungalow and giving access to separate toilets and bathroom. Building is entirely traditional with cavity walls and tiled roof.

Heating can be provided by an electric under-floor system or gas-heated warm air. Each kitchen is provided with a Culsynk sink and drainer and an electric cooker, Baby Belling, type 45A. A bell warning system is included to arrange for immediate communication with adjoining Warden's home if provided.

£1M. LONDON AIR TERMINAL EXTENSIONS

British Overseas Airways Corporation will invite tenders early next year for the second phase of the extensions to the Air Terminal in Buckingham Palace Road, London, S.W.1.

Architects for the scheme, which is estimated to cost £1m., are T. P. Bennett and Son, 43 Bloomsbury Square, London, W.C.1. The quantity surveyors are Harris and Porter, 3 Robert Street, London, W.C.2.

£800,000 PETERBOROUGH REDEVELOPMENT

Oddenino's Property and Investment Co., Ltd., expect to invite tenders for phase 1 of the Broadway-Midgate redevelopment scheme, Peterborough, in February. An approximate programme for the redevelopment of the area has been approved by the City Council's Development Committee and providing county planning approval is obtained demolition of the existing buildings on the site should commence in January, and construction work in connection with phase 1 in April.

The scheme, estimated to cost about £800,000, comprises the erection of a large shopping block and an arcade. The arcade will lead into the general market place, which is to be moved from its present site to the cattle market car park.

Architects for the project are Douglas Stephen and Partner, 30b Wimpole Street, London, W.1.

R.I.C.S. RESEARCH GRANTS

Applications are being invited from the Trustees of the Education Trust of the Royal Institution of Chartered Surveyors from individuals or groups for grants for research in any branch of surveying.

The applications, from suitably qualified persons, who need not be chartered surveyors, should be accompanied by brief details of the proposed research and relevant expenditure, and should be sent to the Honorary Secretary, R.I.C.S. Education Trust, 13 Great George Street, London, S.W.1, by October 31.

CITY APPROVE ST. PAUL'S PRECINCT PLANS

CONDITIONAL approval has been given by the City of London Corporation to preliminary plans for redevelopment of St. Paul's Cathedral northern precinct area by the Church Commissioners.

Nine major buildings are included in the scheme, varying from four to 19-storeys in height. The approval new received lays down conditions that the whole external appearance of these buildings should be reconsidered; the heights of some buildings should be reduced by one storey; and four blocks should be completely re-designed. This approval was given despite a request from the L.C.C. that consideration of the plans should be postponed.

The original plans for the redevelopment were prepared by Sir William Holford. Work will be carried out by a consortium of contractors, consisting of Trollope and Colls, Ltd.; John Laing and Son, Ltd.; and George Wimpey and Co., Ltd.

L.C.C. Statement

Concerning the Corporation's decision, Sir Isaac Hayward, Leader of the London County Council, made the following statement:

The scheme for the development of the area north of St. Paul's Cathedral submitted on behalf of the Church Commissioners is substantially on the lines of Sir William Holford's plan. This plan was wholeheartedly supported by the Council who considered a report on it on June 19, 1956. The details of the specific buildings to be erected were shown in a model submitted to the Town Planning Committee on July 10, 1961. The Town Planning Committee, however, in view of the exceptional importance of the scheme felt that it was reasonable to ask for further time to enable the details to be considered.

The City Corporation were within their legal right to approve the plans before them on the basis of the outline planning permission already given by the City on behalf of the London County Council. The Council, however, still hope that in view of the national importance of the site it may be possible to settle the details of the scheme in a way which may be finally agreed between the City Corporation and the Council.

SUCCESS OF WORK STUDY ON ROADWORK

The Warwickshire County Roads Committee report that their experiment in applying work study methods to roadwork has proved an unqualified success.

They state that all eight road divisions in the county are now operating the system resulting from the efficiency studies, which included the "streamlining" of labour and maintenance methods and a bonus scheme for the council's 440 road builders and repairers. The new system is said to be saving £80,000 a year, compared with costs of road maintenance and repair before it was instituted.

Although unit labour costs have fallen by 19 per cent., each worker is earning an average bonus of £1 6s. 8d. above his fixed weekly wage and output has increased by nearly 50 per cent.

RoSPA ACCIDENT STATISTICS BOOKLET

Containing 38 pages, a booklet entitled Works Accident Statistics, Part 2: Records and Analysis, has been published by the Royal Society for the Prevention of Accidents as a guide to those whose business it is to maintain an accident recording system.

The pamphlet shows how to establish such a system, how to prepare statistics from the records, and how to present them in a clear and concise manner. It is obtainable from the Service Department RoSPA 52 Grosvenor Gardens, London, S.W.1, and the price is 5s., post free (members 3s. 9d.).

Talking of Safety

by

"DRAGEE"

IF you should look through the Factories Acts for a legal definition of a competent person you will seek in vain: for there is none. It's rather like searching for an interpretation of the word "building." To you and me, a building means something with foundations, walls and a roof, but if you really want to know what a building is, you cannot do better than study some of the unexpected definitions produced in the High Court since the building regulations came into being.

In general, the true meaning of "competence" must be related to a specific task. Thus in the case of the person who is required to undertake the thorough examination of a piece of equipment we find the following very useful rule for the selection of a competent person given by the Royal Society for the Prevention of Accidents in "The Building Regulations Handbook":

"The person chosen should have such practical and theoretical knowledge and actual experience of the type of machinery and plant which he has to examine as will enable him to detect defects or weakness which it is the purpose of the examination to discover and to assess their importance in relation to the strength and function of the machinery or plant."

This carefully worded statement gives the clue to a wider and more general definition of a Competent Person. The essential requirement is that he shall possess the knowledge and skill to undertake successfully the task assigned to him. This, of course, is a matter for decision by the employer whose duty it is to appoint a competent person in accordance with his legal obligations. How he is to arrive at that decision is not at all easy to determine. It may be a matter of assessment of personal qualities. An

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

assessment has to be made, for example, when the employer is faced with the need to select an individual from the ranks of his own employees. On the other hand, it may be a matter of delegating the selection to an authority, as when an employer calls in a specialist firm of manufacturers or an insurance company to test and examine his lifting equipment. In any event, the ultimate responsibility will rest with the employer to whom the act or regulation applies, first to understand its intention and then to ensure that it is fully discharged.

This brings me to a most important point which, I believe, is not always appreciated. Competence in itself is not enough, and I would qualify RoSPA's excellent definition by stipulating that the person chosen should not only be capable of doing efficiently whatever it is he is supposed to do: he should also be reliable.

A colleague of mine once had a most alarming experience when he was walking round a new scaffold platform some 30ft. above the ground.

The third lift of the scaffold had been completed during the weekend by a sub-contractor. The bricklayers were finishing some work on another part of the site, but already some materials were being stacked on the platform. Early on the following morning, the agent instructed a junior foreman, named Hobbs, to carry out the usual inspection of the scaffold, and to enter the results in the register. It was raining slightly and it was a Monday morning, and I suppose Hobbs was not feeling at his best. Anyway, the scaffold appeared to be satisfactory, and he duly recorded it as being "in good order." An hour or so after this, my friend, Roy Paterson, arrived on the site. The agent was just going off to a meeting, but before he left he handed the registers to Roy and suggested that he should have a look round with the foreman. This he did, and a few minutes later they were walking along the main working platform of the scaffold.

To all outward appearances the platform had been very carefully constructed. The

guard rails and toeboards were in position, and the flooring was level and closely fitted. They turned a corner and Roy walked, slightly ahead, along the gable platform. As he neared the end, he had a sudden feeling of insecurity. At first it was no more than a sensation of lightness, then he realised that the board on which he was standing was beginning to tilt sharply. Instinctively he threw himself backwards, and at the same moment Hobbs grabbed the rising end of the board and forced it back into place. Roy picked himself up, shaken but unhurt. They found that the plank was short of the end putlog by several inches and that it had an overhang of almost one-third of its length.

Faults like these are, of course, exceedingly dangerous, mainly because they are often not apparent until it is too late, and somebody gets hurt. The scaffold who leaves a trap like this is guilty of serious negligence, but it should always be remembered that the whole purpose of an inspection is to discover weaknesses in construction which could lead to accidents. An inspection which falls short of this is worse than useless; it can promote a false sense of security.

ROAD EMULSION ASSOCIATION

President and Presentation

At the luncheon following their annual general meeting in London recently, members of the Road Emulsion Association paid tribute to Brig. Gen., E. G. Wace, C.B., D.S.O., chairman since the inception of the Association 33 years ago.

General Wace, within sight of his 85th birthday had at last persuaded the Council that the chairmanship must pass to a younger man, and, on relinquishing that office, was elected life president of the association.

Mr. Alan Dussek voiced the view of all members when he said that no one man had done more for the industry than General Wace who, when with Colas Products and subsequently, was not only well known in the United Kingdom but was recognised internationally as a leading figure in the industry, through his representation on P.I.A.R.C. and other organisations.

General Wace, in reply, recalled the earlier members and expressed particular pleasure at seeing present Mr. E. S. Cadic, the son of Mr. L. S. Cadic, who was a prime mover in flotation of the Association and its first secretary. General Wace also welcomed Mr. H. W. Leech (Brookes Chemicals, Ltd.), his twin in years, and Mr. S. H. Mearns who had been auditor to the Association for many years up to his retirement in 1960.

Mr. Dussek, on behalf of members, presented General Wace with a gold wrist-watch, to mark his election as president.

PERFORMANCE OF PLANT IN COMPACTION OF WET-MIXES

Road bases must be adequately compacted during construction if roads are to behave satisfactorily under traffic. In recent years, premixed water-bound macadam—or wet-mix as it is more generally called—has been widely used for road bases. It consists of graded crushed aggregate mixed with a small amount of water.

The Road Research Laboratory has investigated the performance of a wide range of compaction plant in the compaction of a wet-mix limestone and a wet-mix slag in common use and the results are published in Road Research Technical Paper No. 53*. They provide the engineer with information on the performance of plant, the moisture range within which the materials should be used and the state of compaction that can be obtained.

*"The Performance of Compaction Plant in the Compaction of Two Types of Granular Base Material," by W. A. Lewis, B.Sc., A.M.I.C.E., M.Inst.H.E., and A. W. Parsons. Published for D.S.I.R. by H.M.S.O., price 2s. 3d., by post 2s. 7d. (U.S.A. 41 cents).



4½ IN. POWER CABLES FOR WELSH HYDRO-ELECTRIC SCHEME

Engineering Problems Overcome

TWO mass-impregnated non-draining 3-core 33-kV power cables have been installed as part of the Cwm Rheidol hydro-electric scheme, near Aberystwyth, for the Northern Project Group of the Central Electricity Generating Board.

The 4½ in. diameter cables, manufactured in single lengths of 1,800ft., each weigh over 20 tons, and are designed to withstand stresses arising from installation on a steep gradient. Two steel-wire armoured p.v.c. pilot cables have also been supplied.

Shaft-type Cleats

Power and pilot cables are secured in shaft-type cleats bolted to a concrete slab formed in the bottom of a trench. They are installed on a 1,380ft. long slope at an average angle of 32 degs. from horizontal. Before the ground is reinstated, the cables will be protected with inverted concrete troughs for which anchor recesses have been provided in the concrete slab. Provision will also be made for natural ventilation. The cores of the 0.5 sq. in. conductors in each cable are individually sheathed with lead to provide additional strength and for convenience of terminating in sealing ends at each end of the route.

Because of the weight of the cables and the steepness of the slope, installation posed a number of engineering problems. The drums could not be taken closer to the top of the hill than 250yd., from which position the cable had to be drawn across a boggy field and lowered down the slope by two winches running simultaneously, wire bonds being attached at a succession of points. A hand winch at the bottom of the slope was used to guide the cable

end to the transformer enclosures. The main winch used for lowering was equipped with a torque converter which enabled the heavy cable to be inched into the correct position for anchorage in teak cleats.

When the power station is commissioned the cables will carry its total output from step-up transformers to connect with a 33-kV. overhead line at the top of the hill.

The cables were manufactured by the power cables division of British Insulated Callender's Cables, Ltd., and were installed by British Insulated Callender's Construction Co., Ltd. Kennedy and Donkin, 12 Caxton Street, London, S.W.1, are the consulting engineers responsible for the transmission installations associated with the hydro-electric scheme.

SELECTION OF STAFF

B.I.M. Glasgow Conference

Can selection of staff be placed on a scientific basis? Various methods of "fitting the man for the job" are used today and these will be explained and investigated during a one-day conference of the British Institute of Management at the St. Enoch's Hotel, Glasgow on Wednesday, September 27.

The two speakers will be Mr. J. Munro Fraser, reader, Department of Industrial Administration, Birmingham College of Technology and Mr. Richard S. Stokes, warden, Electricity Council Management Training Centre.

Rear-Admiral B. Bryant, staff personnel and training manager (Scottish Factories) Rolls-Royce, Ltd., will take the chair for the day.

JAPANESE BUILDERS VISIT L.M.B.A.

A SMALL party of Japanese builders recently visited the London Master Builders Association for an exchange of views on the building and construction industry.

Mr. P. H. Bates, vice-president of the L.M.B.A., welcomed the party, and introduced the speakers, Mr. R. D. Macleod, who briefly outlined the work of the national contractor in this country, Mr. E. Smith, who explained the activities of the medium sized building firm, and Mr. J. T. B. Crouch, who described the organisation of the Association.

During the questions and discussion which followed the talks comparison was made between the cost of buildings in London and in Japan, the labour situation—which is also acute in Japan, and restriction of heights of buildings in London.

Rates of pay appear to be very similar at the present time both in London and Japan, and the visitors also expressed the view it was very difficult indeed to attract young men into the industry, and were keen to learn more of the Association's efforts in this direction.



Mr. P. H. Bates, vice-president of the L.M.B.A., the two speakers, and Japanese guests of the Association

KENSINGTON MODULAR FLATS NEAR COMPLETION

TWO fourteen-storey blocks of flats built to a modular design are now almost complete on a site at Golborne Gardens, Kensal, West London.

Designed for the Kensington Borough Council by Sir William Holford, the flats are believed to be the largest in Britain to incorporate the latest modular techniques. The consulting engineers for the project are R. Travers Morgan and Partners, and the contractors are Unit Construction Co., Ltd., Feltham, Middx.

All structural plans and sizes in the flats are in multiples of 4in. This meant that all those concerned in building the structures and providing the services, such as lifts and plumbing, knew they were working to a simple standard with the pre-fabrication of units in multiples of 4in. throughout construction, even if necessary to the kitchen fittings.

All columns and beams were 8in. thick so that they "disappeared" into the 8in. party and exterior walls thus avoiding rooms of an awkward shape.

P.F.A. Blocks

Another experiment carried out in the construction of the two blocks is in the use of pulverised fuel ash as a building material. This was made into hollow blocks, 16in. by 8in. to make wall panels, against which the supporting reinforced concrete structure was cast. The blocks are fireproof, lightweight, and have a good thermal insulation.

The exterior cladding is of normal brickwork, placed in front of the p.f.a. walls.

HEATING AND VENTILATING CONFERENCE

The first International Conference on Heating, Ventilating and Air Conditioning is to be held at Olympia, London, from September 27 to October 4, 1961.

Various Papers will be presented during the conference by British and foreign authors and a number of technical visits have been arranged.

Of particular interest to county and local authority architects and engineers will be the Papers on "Heating and Ventilating Engineering in relation to Urban Planning" and "Integrated Design of Architectural and Engineering Services for Economy of Building Construction." Other Papers will deal with hospital requirements, costing in the contracting industry, contract planning and organisation of site operations, and probable trends during the next 10 years.

The Institution of Heating and Ventilating Engineers are organising the conference and applications for registration as a delegate should be made to the Conference Secretariate of the Institution at 49 Cadogan Square, London, S.W.1.

CAMBERWELL BOTTLING DEPOT REBUILT

Work is now complete on a £50,000 scheme by Fremkins, Ltd., for redeveloping their bottling depot at Danes Road, Camberwell, London, S.E.5.

The scheme included the construction of a beer store of 4,500 sq. ft., a new single-storey suite of offices and the conversion of an existing office building into a canteen. In addition about 1,600 sq. yd. of reinforced concrete paving has been laid in loading yards, connecting roads, etc.

The store is a steel-framed structure on piled foundations. Andek roofing has been used, comprising lightweight steel bars supporting wood-wool slabs covered by a ½ in. cement screed, three-layer felt and stone chippings.

Bridge Walker, Ltd., Effra Road, London, S.W.2, were the general contractors, and the scheme was designed and supervised by Fremkins' own staff. The company surveyor is Mr. C. J. E. Gooding, and the surveyor-in-charge, Mr. M. F. Davis.

FOR THE DIARY

Aug. 29
Meeting of the Mid-Southern branch of the Contractors' Mechanical Plant Engineers, Calcot Golf Club, Bath Road, near Reading. 7.30 p.m. "Plant Insurance," by T. Kemp.

Sept. 5
Meeting of the Manchester and District branch of the Contractors Mechanical Plant Engineers, Woodcourt Hotel, Brooklands Road, Sale. 7.30 p.m.

International Packaging Exhibition, Olympia, London. Sept. 5-15.

Meeting of the London branch of the Institution of Plant Engineers, Royal Society of Arts, London. 7 p.m. "Corrosion—Prevention by Cathodic Protection" by R. A. Lowe and J. S. McLachlan of Corrosion and Welding Engineering Ltd.

Annual conference of the Institute of Works and Highways Superintendents, Lytham St. Annes. Sept. 5-8.

Sept. 7
Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4. 7.30 p.m.

Sept. 13
Meeting of Glasgow branch of the Contractors' Mechanical Plant Engineers, More's Hotel, India Street, Glasgow. 7.30 p.m. Film show and social evening.

Sept. 18
International Conference on Timber Engineering at Southampton University. Sept. 18-23.

Sept. 19
Association of Public Health Inspectors' Annual Conference and Exhibition, Bournemouth. Sept. 19-22.

Sept. 21
Meeting of the Yorkshire branch of the Contractors' Mechanical Plant Engineers. Visit to Thruscross Reservoir.

Sept. 26
Western branch of the Contractors' Mechanical Plant Engineers. Supper dance at Ashton Court County Club.

Ninth annual residential study course of the Institution of Municipal Engineers—South-Western District, at Dillingham House, Ilminster, Somerset. Sept. 26-28.

Heating, Ventilating and Air Conditioning Exhibition, Olympia, London. Sept. 26—Oct. 6.

Sept. 27
Meeting of the South Wales branch of the Contractors' Mechanical Plant Engineers, Dunraven Arms Hotel, Bridgend. 7.30 p.m.

Sept. 28
Meeting of Sheffield branch of the Institution of Plant Engineers, Grand Hotel, Sheffield. 7.30 p.m. "Industrial Relations" by W. Carron, president, Amalgamated Engineering Union.

Sept. 29
Meeting of the Birmingham branch of the Institution of Plant Engineers, Imperial Hotel, Birmingham. 7.30 p.m. "The Planning, Application and Maintenance of Industrial Lighting" by V. Heydon, manager, Lighting Division, G.E.C.

Sept. 29-30
Plant exhibition and demonstration arranged by the North West branch of the Contractors' Mechanical Plant Engineers, Territorial Army Test Ground, Aigburth, Liverpool.

Oct. 3
Conference of the Association of Public Lighting Engineers, Scarborough. Oct. 3-6.

Meeting of the Manchester and District branch of the Contractors Mechanical Plant Engineers, Woodcourt Hotel, Brooklands Road, Sale. 7.30 p.m.

Oct. 4
International Design Congress to be held by the Council of Industrial Design at the Royal Society of Arts, London. Oct. 4-5.

Annual conference and exhibition of the National Society for Clean Air, Dome, Brighton. October 4-6.

Oct. 5
Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4. 7.30 p.m.

Convention on "Planning for Traffic" arranged by the Institution of Municipal Engineers, London.

Meeting of the Institution of Structural Engineers, London. Presidential Address.

Oct. 9
Annual conference of the Institute of Quarrying, Palace Hotel, Torquay. Oct. 9-13.

Meeting of the Yorkshire branch of the Contractors' Mechanical Plant Engineers. Ladies Night.

Oct. 10
Annual dinner of the Contractors' Plant Association, Dorchester Hotel, London.

Meeting of Manchester branch of the Institution of Plant Engineers, Manchester Literary and Philosophical Society's Rooms, George Street. 7.15 p.m. "The Trends and Progress of Nuclear Power Station Design," by W. G. Busbridge, United Kingdom Atomic Energy Authority.

Oct. 11
Meeting of the Glasgow branch of the Contractors' Mechanical Plant Engineers, More's Hotel, Glasgow.

Oct. 18
Forty-sixth International Motor Exhibition, Earls Court, London. Oct. 18-28.

Oct. 19
Annual dinner of the Institution of Mechanical Engineers, Dorchester Hotel, London.

Oct. 20
Annual dinner of the Yorkshire Federation of Building Trades Employers, Queens Hotel, Leeds.

Autumn general meeting of the Southern Counties Federation of Building Trades Employers, Connaught Rooms, London. 10.30 a.m.

Annual dinner of the Merseyside and North Wales branch of the Institution of Plant Engineers, The Blossoms, Chester.

Oct. 25
Meeting of the Institution of Mechanical Engineers, 1 Birdcage Walk, Westminster, London, S.W.1. Presidential Address.

National Conference of the Town and Country Planning Association, Church House, Westminster. "Inquiry into Planning," Oct. 25-26.

Oct. 27
Meeting of the Birmingham branch of the Institution of Plant Engineers, Imperial Hotel, Birmingham. 7.30 p.m. "High Pressure Hot Water Heating," by P. Marshall and K. J. Luntley.

Oct. 31
Annual dinner of the British Road Tar Association, Grosvenor House, London.

Meeting of the London branch of the Institution of Plant Engineers, Royal Society of Arts, 7 p.m. "Tower Cranes—Their Use in Multi-storey Construction," by A. G. Stone.

Nov. 1
Annual dinner and dance of the Federation of Registered House-Builders at the May Fair Hotel, London, W.1.

Nov. 2
Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4. 7.30 p.m.

The House-Builders Conference at the Connaught Rooms, London, W.C.2.

Nov. 7
Meeting of the Manchester and District branch of the Contractors Mechanical Plant Engineers, Woodcourt Hotel, Brooklands Road, Sale. 7.30 p.m.

Institution of Civil Engineers, London. Presidential Address.

Nov. 10
Scottish Motor Exhibition, Kelvin Hall Glasgow. Nov. 10-18.

Dinner dance of the Yorkshire branch of the Contractor's Mechanical Plant Engineers.

Nov. 13
Factory Equipment, Heating, Ventilation and Thermal Insulation Exhibition, Earls Court, London. Nov. 13-18.

Annual dinner of the Lighthouse Club, Grosvenor House, London.

Nov. 15
Building Exhibition, Olympia, London. Nov. 15-29.

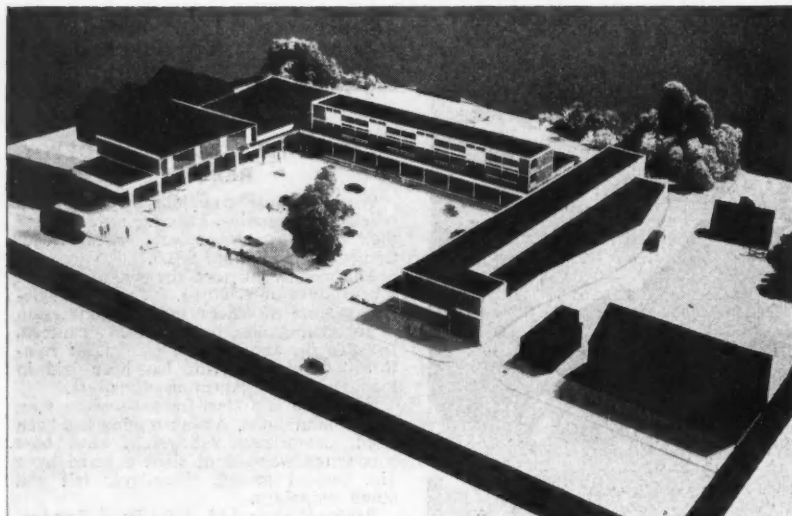
Nov. 21
Annual banquet of the National Federation of Roofing Contractors, Grosvenor House, London.

Nov. 22
Annual general meeting of the National Federation of Roofing Contractors, London.

Nov. 30
Annual dinner and dance of the Institution of Water Engineers, Park Lane Hotel, London.

Annual dinner and dance of the Derbyshire branch of the Contractors' Mechanical Plant Engineers, Victoria Restaurant, Chesterfield.

Dec. 1
Winter general meeting of the Institution of Water Engineers, at Institution of Civil Engineers, London.



Work has recently commenced on the erection of 20 shops and maisonnettes at Welling, Kent. As can be seen from this model of the project, parking facilities for 200 cars are provided in front of the buildings. The architects are H. A. Halpern and Partners, the consulting engineer Gordon Rose, quantity surveyor R. J. Playle and the contractors J. Stevens (Builders), Ltd. Estimated cost of the scheme is £200,000

International Construction

FINAL STAGE OF £3½M. HONG KONG HOUSING SCHEME

From a Correspondent



Part of one of the occupied blocks on So Uk estate

CONSTRUCTION work has now started on the fourth and final section of the Hong Kong Housing Authority's £3,500,000 So Uk Estate. This section consists of 5 multi-storey blocks, containing a total of 1,796 flats.

Occupying some 18½ acres of land, the estate stands on a slope and nearly 2 years site formation was necessary before construction could begin. Some 300,000 cu. yd. of earth and rock had to be removed to form terraces.

The completed scheme provides for 5,333 flats in 8-storey, 12-storey and 16-storey blocks for a population of about 33,000 people. In addition there are two 24-class primary schools.

So Uk is the first of three skyscraper estates being built by the Hong Kong Housing Authority at a cost of £7.6 million. The estates, which are situated a few miles apart in the densely populated area at the top of the Kowloon peninsula, will have a total of 15,002 flats and are scheduled for completion by mid-1964.

The Housing Authority, formed in 1954 to provide flattened accommodation of a good basic standard for clerical workers, artisans and other middle-income employees, is financing the projects by means of loans from the Colony's Development Fund. It has received a grant of £87,500 from the Colonial Welfare and Development Fund in Britain to help meet the cost of site formation works.

The photographs are reproduced by courtesy of the Hong Kong Government Information Service.



The So Uk scheme nearing completion

International Construction**A RECORD YEAR FOR COLONIAL DEVELOPMENT****£26m. to Benefit Oversea Territories**

BRTAIN spent nearly £26m.—another record sum—on development and welfare schemes to benefit her overseas territories in the last financial year. This is revealed by provisional figures in the annual Return of Schemes made under the Colonial Development and Welfare Act.

Issues for development projects in the overseas territories during the year amounted to £25,977,000 (including £1,352,000 for research). This brought the total for issues since April 1, 1946, up to £226,576,440 of which £209,248,920 was for development and welfare and £17,327,520 for research. Commitments undertaken during the year totalled £35,291,739 for development projects and £2,186,869 for research.

Exchequer loans approved during the year totalled £25,000,000 and included £8½m. to the East African High Commission for the development of the railway system, road and water transport services and the construction of new wharves, quays and jetties.

£11m. for Economic Development

The largest total of grants and loans approved for development schemes was in the economic field, which amounted to £11,606,160. Outstanding totals under this heading were £5,059,962 for agricultural and veterinary schemes; £3,371,522 for industrial development; £1,352,681 for irrigation and drainage and £1,004,465 for forestry schemes.

Grants and loans for education totalled £9,807,900 of which £5,047,913 was for primary and secondary education and

£3,082,679 was for higher education.

Communications accounted for £6,590,392 of which £5,597,865 was for road projects. Schemes for developing water supplies and sanitation received grants totalling £1,004,962 and medical and health services benefited by £1,503,637.

East African Grants

Grants and loans approved for East African territories amounted to £7,964,308 of which £3,044,846 was for Tanganyika and £2,387,168 for Kenya. Among the grants for Tanganyika were £518,300 for forestry development, £260,839 for extensions to secondary schools and teacher training centres and £249,400 for improvements to the Mikumi/Msolwa road.

Largest of the grants for Kenya was £450,204 for surveys connected with the Swynnerton Plan for intensive development of African Agriculture and a further £421,907 was for assistance towards the recurrent cost of the Agricultural Department in 1960-61.

In Central Africa, Nyasaland was granted £1,191,428 including £257,957 for the development of African education, £247,500 to reconstruct part of the Chileka/Matope road and £224,421 for African land reorganisation. Northern Rhodesia benefited by £621,773 of which £512,560 was to improve African education facilities by building and expanding trades and technical schools, teacher training colleges and secondary schools.

Public Works Plant

Grants and loans for the West African territories totalled £2,696,067. Of the £1,336,009 approved for Sierra Leone, £301,500 was for mechanical plant for the

Public Works Department and £189,375 was for railway development. The Gambia benefited by £737,470 of which £240,470 was for road development and three grants totalling £248,717 were for the construction of the Gambia High School and other school buildings.

Educational Development

Grants and loans for Malta totalled £5,369,465, among them a grant of £848,810 for a primary school building programme. Gibraltar received two grants during the year—£500,000 towards the cost of the 1960-63 housing programme and £47,000 for road reconstruction.

Grants for educational development accounted for £481,368 of the £807,989 approved for Aden, and included one grant of £200,000 for the building and extension of primary and intermediate schools.

In the Far East, grants totalling £1,619,183 were approved for development in Sarawak—including £1,176,455 for road works—while in North Borneo grants and loans totalling £1,065,432, including £593,556 for road developments and £346,506 for further educational facilities.

In the Western Pacific, Fiji benefited by £465,306—including £145,946 for an outpatients' and operating theatre block at the Colonial War Memorial Hospital, Suva, and £137,027 to build a Technical Institute—while the British Solomon Islands Protectorate was granted £318,904 which covered a wide variety of schemes.

SNOWY MOUNTAINS HYDRO CONTRACTS

The Australian Minister for National Development, Senator Spooner, has announced that the first contracts have been placed for the second stage of the Snowy Mountains hydro-electric and irrigation scheme. The contracts, worth £3,240,000, are for the main generating plant of the scheme's largest power station, Murray one.

The successful tenderers are: Turbines—Boving and Co. (ANZ) Pty., Ltd., Melbourne; generators—A.S.E.A. (Australia) Pty., Ltd., Sydney; transformers—Australian General Electric Company Pty., Ltd., Sydney.

The A.G.E. tender for transformers was made on behalf of Canadian General Electric Company, a wholly owned subsidiary of the American General Electric Company. The 13 33,000 volt transformers will be manufactured in Canada.

More than half the components of the eight 130,000-h.p. turbines will be manufactured in Australia and the remainder in Britain.

MOUNTAIN ROAD FOR NORTHERN RHODESIA

A new mountain road which will require 30 bridges and more than 100 culverts in its twenty-mile length is to be built in the Isoka District of the Northern Province of Northern Rhodesia.

The road will cross the Luangwa Valley, and will link Isoka with a Nyasaland border road between Katumbi and Fort Hill. It will be accessible at first only to vehicles having a four-wheel drive; until now, the mountain range has been impassable to all wheeled vehicles.

A low level causeway across the Luangwa was completed during the last two years and an old track from the river to an escarpment on the eastern side of the valley has been improved. The extension of the track will now cross the escarpment and the Mafinga and Makutu mountain ranges. From an elevation of about 6,000ft., the route will descend to a junction with the existing border road about 3,500ft. below.

MELBOURNE BRICKMAKING PLANT

A brickmaking plant with a capacity of 50 million bricks a year is to be built in Melbourne at a cost of about £A2 million. The scheme is being promoted by the Rio Tinto Mining Co., who have built up big investments in Australia in recent years.

CANADIAN HEADQUARTERS FOR HOSPITAL ASSOCIATION

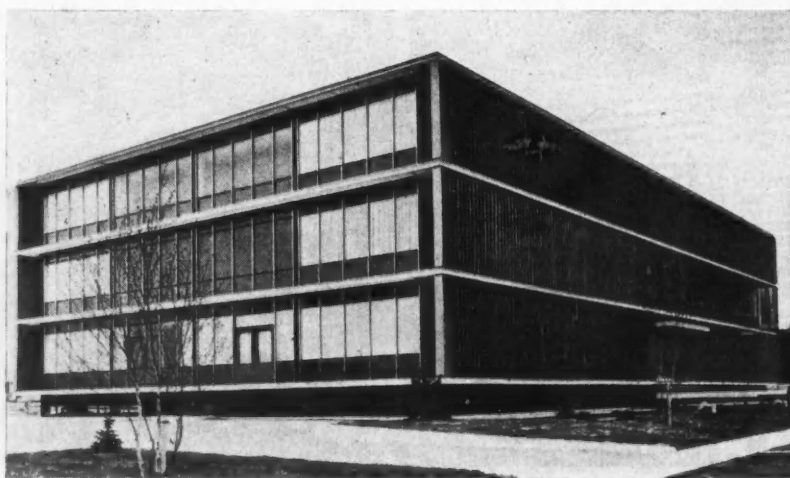
THE new, three-storey headquarters building of the Ontario Hospital Association at Flemington Park, near Toronto, built by Taylor Woodrow (Canada), Ltd., was officially opened recently by the Hon. Leslie M. Frost, Q.C., Prime Minister of the Province of Ontario.

A number of unusual architectural features are incorporated in its design, the most striking being vertical louvers which curtain the entire exterior of the east and

west walls. The louvers are controlled from within the building and will admit or repel sunlight as required. Along the front of the building is an ornamental pool with fountains. The total floor area is approximately 45,000 sq. ft.

The building contains an assembly hall seating 200 persons, two lecture rooms, a library and a staff cafeteria.

The architects were Peter Dickinson Associates; the engineers Giffels and Vallet of Canada, Ltd.



Front entrance of the building set among the vertical louvers (right)

International Construction**CONSTRUCTION OF DOCK WAREHOUSE
AT AMSTERDAM****Main Beams Span 70ft. Longitudinally**

WORK is now nearing completion on the erection of a new dock warehouse at Amsterdam, Holland, and goods are already being stored in a completed section.

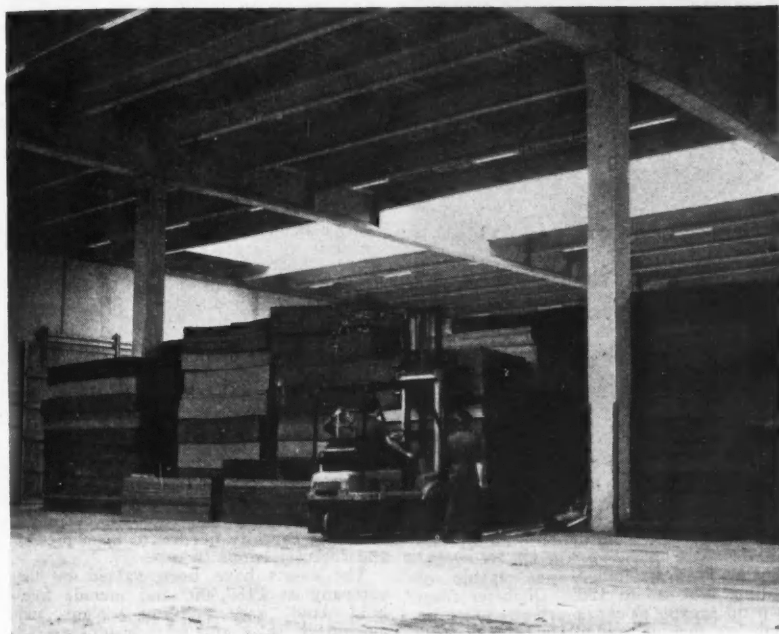
The building will be 1,190ft. long and 200ft. wide. Columns are spaced at 70ft. intervals along its length at 40ft. centres across its width.

The structure is composed of precast, reinforced concrete columns 25ft. long carried on precast concrete raking piles driven to refusal. On the piles are cast in situ column footings with projecting reinforcement which is grouted into holes at the bottom of the columns.

The main beams span 70ft. longitudinally between columns. Each beam weighs

17 tons and is composed of precast concrete segments, post-tensioned together and lifted into position. Spanning across the building transversely between the main beams are precast, pre-tensioned secondary beams. These secondary beams are generally at 8ft. 9in. centres, but where roof glazing is provided a secondary beam is omitted making the spacing 17ft. 6in. Around the outside of the building precast perimeter beams span between columns. The roofing is of precast lightweight concrete units covered by roofing felt. The infilling of the walls is with brick and the floor is concrete.

Work on the site commenced in January this year and the erection of the framing began in April. The work will be completed in October.



Part of the warehouse which is already in use

C.J.B. AWARDED £2M. POLISH CONTRACT

CONSTRUCTORS John Brown, Ltd., who, in conjunction with their associates, have already obtained substantial contracts for work in the U.S.S.R., recently signed a contract worth nearly two million pounds with Polimex, the Polish Government Trade Organisation.

This contract is for the design supply and installation of three tonnage oxygen and nitrogen plants which are to be used in the production of ammonia at Tarnow in the South of Poland. C.J.B. engineers will supervise the erection and commissioning of the plants.

The plants will be completed successively within a period of about five years and they will have a combined output of nearly 1,000 tons a day of oxygen and more than 1,100 tons a day of nitrogen. For the purpose of ammonia synthesis the nitrogen must be exceptionally pure and must not contain more than 100 parts per million of other gases.

The installation will be capable of producing sufficient oxygen and nitrogen for

the production of more than 1,000 tons a day of ammonia, or several times that quantity of artificial fertilisers and it will thus make a most important contribution to the development of Polish agriculture.

C.J.B. have been engaged for some time in negotiating this contract which has been finally signed in Warsaw after a month of intensive discussion on technical and commercial details. The payment terms are part in cash and the remainder on credit.

The signatories to the contract were Mr. Kozuba, director of Polimex and Mr. Niedzielski, an executive, and for C.J.B. Mr. F. P. Korn, commercial manager, and Mr. A. M. Clark, technical executive responsible.

The air separation process used will be that developed in the U.S.A. by Hydrocarbon Research Incorporated, who will be closely associated in the technical aspects of the project. This process has already been used in U.S.A. and elsewhere in a number of plants of similar type, including the largest single tonnage oxygen units in the world, each producing 1,000 tons a day of oxygen.

**LARGE OVERSEAS CONTRACTS
FOR CEMENTATION**

OVERSEAS contracts amounting to about £900,000 have been awarded to The Cementation Co., Ltd., 20 Albert Embankment, London, S.E.1, during the past month.

In India, the company have received an order to strengthen the Shirawta Dam. This brings the total amount of work carried out by the company for the Tata Hydro-Electric Power Supply System during the past two years to £750,000.

Drilling and grouting work has been secured at the new West Barrow Dam in Victoria, Australia, and at Goderich, Canada, the company have successfully tendered for a shaft sinking contract. The shaft, the second of its kind for Dominion Tar and Chemical Co., Ltd., will reach a depth of 1,800ft.

**MAJOR RUNWAY EXTENSION
PLANNED**

The international airport at Sydney, Australia is to have its main runway extended for use by jet airliners. The extension, to cost £A3 million, will give the airport two runways for heavy jet aircraft. The existing jet runway is from east-west.

About 2,500ft. of the new 7,500ft. runway will extend across the waters of Botany Bay. Major engineering problems to be tackled in its construction include the dredging of 4,000,000 tons of sand from the bay.

Extensions are also to be made to the international airport, Perth, so that it can handle big intercontinental jets in time for the Commonwealth Games there late next year.

**ROAD AND BRIDGE WORK IN
SIERRA LEONE**

From Sierra Leone, Barclays Bank D.C.O. reports that a start has been made on the improvement of bridges and curves on the Makeni-Kabala road in the Northern Province by the Public Works Department, and stores are now being collected to concrete all bridges en route including three long bridges which were made between Makeni and Kamabai for the Railway Department. The work will include under-strengthening of bridge foundations and will necessitate using diving equipment.

KUWAIT PIPELINE CONTRACT

Work will begin later this year on the installation of a crude oil transit line between the Kuwait Oil Co.'s Minagish Field and the storage tank farms at Ahmadi.

The pipeline will be 30 miles long and is being supplied by the South Durham Steel and Iron Co., Ltd. It will be constructed in equal lengths of 22in., 24in. and 26in. diameter, and will operate in the first instance on gravity flow with a capacity of a little less than 100,000 barrels a day. The line will be in operation by May, 1962.

£35M. VOLTA PROJECT LOAN

Mr. K. M. Gbedamah, Minister of Health, announced in Accra recently that Ghana was to receive a loan of £35m. jointly from the World Bank and the British and United States Governments towards the Volta River Project.

He said the U.S. Government had also agreed to lend a further £34.5m. towards the establishment of an aluminium company associated with the scheme.

**£A4M. WHARF PLANNED AT
SYDNEY**

A continuous wharf, 1,000yd. long is to be built in Darling Harbour, in the upper part of Sydney Harbour, at a cost of about £A4m. The project is one of the biggest ever undertaken by the Maritime Services Board of New South Wales. Five berths are to be provided along the wharf, each with a cargo shed and covered loading facilities.

Trade and Company News**HELICAL-WELD ALUMINIUM PIPE DEVELOPMENT****Alcan Announce Successful Adaptation**

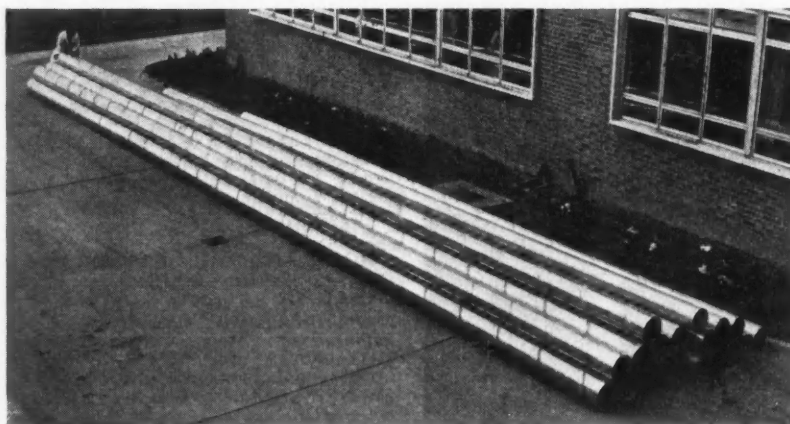
LARGE-SCALE production of aluminium pipe in sizes up to 28in. diameter is now possible, due to the successful adaptation to aluminium of the helical-weld method of tube making.

Until now the two main types of aluminium tubing that were available in large quantities, extruded and drawn seamless tubing, have been limited by practical considerations to a maximum diameter of approximately 12in. The method sometimes used to fabricate large diameter pipes, by bending plates into cylindrical shapes and welding them longitudinally, does not lend itself to large-scale production.

The method of making helical-weld tube

Northern Aluminium Co.), undertook in 1959 in collaboration with makers and operators of helical-weld equipment, a programme of development work on the production of helical-weld aluminium tube. As a result of this work helical-weld tubing is now being offered, in sizes from 6in. to 28in. diameter with wall thicknesses up to 1in., by three British companies: Apitubes, Ltd., Bristol Aerojet, Ltd., and The British Steel Piling Co., Ltd.

Apitubes are producing pipe on helical-weld equipment designed and built at their Jarrow-on-Tyne works; Bristol Aerojet, Ltd., have developed a different type of machine which produces helical-weld tube to exceptionally close tolerances for the more specialised types of application; and The British Steel Piling Co., Ltd., are



Some large-diameter thin-wall pipes

consists essentially of feeding metal strip into formers or a series of rollers set at an angle so that the strip describes a helix as it travels through the machine. The resulting helical seam is then welded continuously and automatically. The tubing can be made in very long lengths and to accurate limits.

The process was first developed for steel pipe at the end of the last century, but it took many years of improvements in strip quality, in automatic welding techniques, and particularly in continuous weld testing and quality control, before the production of consistently high-quality helical-weld pipe became a practical proposition.

Because of the increasing demand for thin-walled aluminium pipe in large diameters, Alcan Industries, Ltd. (then

operating a "Driam" helical-weld machine at their Claydon Works, near Ipswich.

On the Continent at Oberhausen, near Dusseldorf, Intercontinental Enterprises G.m.b.H. are building their "Heliweld" plant. This equipment is capable of forming tube up to 120in. diameter from strip up to 1in. thick; it can therefore be used for making cylindrical vessels and tanks as well as tubing.

For all trials on helical-weld machines in this country Alcan Industries advised on machine adaptation and supplied Noral strip up to 1in. thick in large coils of the higher strength alloys. Their associates, Aluminium Laboratories, Ltd., Banbury, fitted the MIG and TIG welding equipment to the machines and established correct welding procedures.

TECALEMIT ORGANISATION CHANGES

Changes have been made within the Tecalemit group of companies, as follows: Tecalemit, Ltd., has become a holding company only, providing financial, technical and general administration services for all the companies within the group.

A new company, Tecalemit (Engineering), Ltd., has been formed to carry out all of the manufacturing, engineering and selling activities previously conducted by Tecalemit Limited. The following have been appointed to the board of Tecalemit (Engineering), Ltd.: Mr. S. G. Gates, C.B.E. (chairman); Mr. P. R. Scutt (managing); Mr. T. R. Hardman (sales); Mr. J. E. Drinkwater (production); Mr. H. E. Jackson (engineering); Mr. P. N. Nicholas (secretary); and Mr. A. D. N. Priestley (chief accountant).

NEW WINDOW NEEDS LESS CLEANING

Radiovisor Parent, Ltd., Stanhope Works, London, S.W.19, have been granted a non-exclusive licence by the Central Electricity Generating Board to manufacture and sell the Everclean window which has been developed by the Board's research laboratories.

The window relies on the inability of dust and soot particles to travel along a bank of tubes or a honeycomb in which each tube or cell is long, compared with its diameter. Tests carried out by the Board have shown that window cleaning can be reduced to once in 12/18 months.

A design of Everclean window is also available for use where a positive flue pressure exists. In the past it has been necessary, in these conditions, to employ compressed air for purging.

GAZEWAY PLANT HIRE DEMONSTRATION

A DEMONSTRATION of building and civil engineering plant was held recently at Hurst Park, Surrey, by Gazeway Plant Hire, Ltd., Windmill Lane, Thames Ditton.

On show was the range of earthmoving and handling plant available on hire from the company. Support was lent to the demonstration by Audax, Ltd., West Molesey, who displayed their concrete skips, Blokfork hollow-pot handling device, and beam clamps.

Feature of the demonstration was the new Weserwolff mobile excavator/crane, for which Gazeway have recently been appointed sole concessionaires in this country (*The Contract Journal*, July 20). This machine, mounted on a lorry-type chassis, has a 360 deg. slew, and has front end attachments for use as a face shovel or drag shovel of 1/2 cu. yd. capacity, a grab, or a crane with a maximum loading of 3 1/2 tons.

B.S.P. MOVES AND APPOINTMENTS

Following the transfer of their plant division from London, the British Steel Piling Co., Ltd., announce that enquiries and orders for pile-driving equipment for sale or hire, for spare parts and pile shoes, should be addressed to their Zenith Works, Claydon, Suffolk (tel.: Claydon 366, 367 or 368).

The location of the piling division dealing with Fordingham steel sheet piling, box piles, steel trench sheeting and B.S.P. cased piles remains at 10 Haymarket, London, S.W.1.

Mr. B. C. A. Cox is appointed general sales manager of the company and will continue to operate from London. Mr. F. R. Bush is appointed sales office manager, plant division, at Claydon. Mr. D. C. Bean, a director of B.S.P., now has his office at Claydon.

BOVIS ACQUIRE HERTS. JOINERY WORKS

Negotiations have been concluded by Bovis Holdings, Ltd., for the acquisition of certain assets of a joinery business at Hitchin, Herts., which, say the directors, will provide the additional joinery manufacturing capacity needed to meet present and forecast commitments.

The assets have been valued by the company at £187,500, and include freehold land and buildings, plant and machinery, stock and work-in-progress.

The consideration for such acquisition was £187,500 and was satisfied by the issue to the vendors of 145,000 fully paid ordinary shares of 5s. each in the company. On issue these shares were converted into stock and now rank *pari passu* with the existing ordinary stock in the company.

B.I.C.C. OPEN STOCKTON-ON-TEES WAREHOUSE

With a floor area of 4,000 sq. ft., a new warehouse has been opened at Haverton Hill Road, Stockton-on-Tees, by British Insulated Callender's Cables, Ltd.

The warehouse is subsidiary to the firm's main stores and offices at Middlesbrough, and will allow 100 tons of winding wires to be stored, together with p.v.c. armoured cables up to 0.06 sq. in., and a large variety of connecting wires.

THE YOUNGMAN CLIMBER

With reference to the article in our last issue on the above power-operated cradle, which W. C. Youngman, Ltd., are testing on jobs prior to making available for sale, the company are offering to supply electrically operated prototypes on hire, free of charge, for selected contracts to assist them in carrying out these tests.

Trade and Company News

HANDLING OF BALLCLAY

Dump Trucks Overcome the Mud

From a Correspondent

IN recent years, Pike Brothers Fayle and Co., Ltd., Wareham, Dorset, producers of ballclay, have reorganised their handling methods and have doubled the productive capacity of underground mines and open-cast workings. The latest development is the introduction of Camill 7 cu. yd. articulated dump trucks for the shifting of overburden at the Povington, Dorset, open-cast site and the company reports that these machines are moving twice the number of loads in a day than had previously been possible.

The Camills, each with a payload of 20,000lb., are overcoming very soft ground conditions particularly at the edge of the unconsolidated tip which has a jelly-like surface in moderate and bad weather.

The dump trucks are loaded with sandy overburden by dragline excavator and travel a short distance on an earth road-

way to the tip where bogging down is inevitable. At the discharge point, the trailing wheels of a Camill will sink to a depth of 2ft. or more but the machine is able to extricate itself without assistance because of the shortening wheel-base principle which is a unique feature of its design. A powerful "humping" action is achieved with the end of the tipping rams and the alternate use of front and rear wheel brakes. The pulling power of this action is approximately 8 tons and each "humping" movement results in a step of approximately 4ft. 3in.

Designed by Campbell and McGill, Ltd., civil engineering contractors, of Winchester, the Camill is manufactured by the same company's mechanical engineering branch, Camill Engineering Co., Ltd., Marketing and servicing is handled exclusively by E. Boydell and Co., Ltd., of Manchester.



Camill dump truck recovering from the edge of the tip after dumping a load

METAL CUTTING MACHINE

Anderston Clyde Engineers, Ltd., Irk Vale Works, Chadderton, Manchester, are now manufacturing a rapid metal cutting machine, which they have named the Neva-Scimitar. This will cut rod or bar up to 4in. diameter or sheet metal up to 3/16in. thick.

It is powered by an 8 h.p. electric motor and has a special alloy cutting blade, 21in. in diameter, fixed directly on the motor shaft. High speed mitre cutting is possible with the machine, as well as groove cutting, notch cutting and profile cutting of angles in sheet metal. The dimensions are 4ft. 6in. x 2ft. 8in. x 4ft. 6in. high.

SPECIAL HOIST FOR NORTHFLEET POWER STATION

Lifts of up to 119ft. are possible with a special hoist of 5 tons capacity which has been ordered by the Central Electricity Generating Board (Southern Projects Group) from Matterson, Ltd., Shawclough, Rochdale, Lancs., for installation at Northfleet Power Station, Kent.

The purpose of the hoist will be for the removal and lowering to basement level of fan motors which might burn out in the forced draught fans on the fourth floor of the building. A Type 801 hoist has been selected, and this will be used with a hoist block weighing nearly 3 tons. The estimated cost is £3,000.

ALL-PURPOSE MASTIC

An all-purpose mastic suitable for general sealing work has been developed by Evomastics, Ltd., Common Road, Stafford, and is now available in collapsible tube form. The mastic forms a tough flexible skin around any part of the compound exposed to air.

Should movement be beyond the normal stretch properties of the surface skin, it will break and reseal without breaking away from the edges or body of the joint. A surface forms on the mastic within 18-24 hours, when it may be painted over for decorative purposes, with discoloration.

SCREW FIXING MATERIAL FOR MASONRY

Wood screws may be fixed into all kinds of masonry by use of Stripfix, a plastic material being marketed by Tornado Fixings, Ltd., 27-37 Broadwick Street, London, W.1.

The product comprises a plastic strip divided into twelve ribs which are serrated at 1/2in. intervals. Ribs are torn off at the required length, and the strip rolled into a plug with the tooth edge on the outside. The plug is then pushed into the hole and the screw tightened. More than 100 permanent fixings can be made from one 2s. strip, the manufacturers state.

JOY-SULLIVAN PRECIPITATION DIVISION

THE design, construction and installation of electrical and mechanical precipitators will be handled by a new division, announce Joy-Sullivan, Ltd.

This change in the company's organisation is a result of the merging, in 1959, of Western Precipitation Corp., of Los Angeles with Joy Manufacturing Co., of Pittsburgh, parent company of Joy-Sullivan, Ltd.

Chiefly concerned with equipment for the control and recovery of particulate matter in industrial gases, the range of plant to be offered will include precipitators—of both electrical and mechanical types—filters, scrubbers, and certain processing and heating equipment. The products have wide applications in the field of power generation, cement manufacturing, and in the chemical, gas, iron and steel, and metallurgical industries.

General manager of the new division is Mr. Kenneth H. Cree. A sales office for the Western Precipitation division of Joy-Sullivan, Ltd., has been established at 7 Harley Street, London, W.1, and design and construction will be carried out at Greenock, Scotland, under Mr. A. E. Tolhurst.

ALUMINIUM LIGHTWEIGHT STAGING

Alispan lightweight staging, built on the stressed skin principle, is being marketed by Access Equipment, Ltd., Maylands Avenue, Hemel Hempstead, Herts.

Under normal loads, the amount of deflection and sag in the staging, claim the manufacturers, is negligible, and the wide and flat hard-wearing surface enables large areas to be decked without gaps thus providing complete protection to people and equipment below. The method of construction enables lengths of up to 32ft. to be made.

Alispans are constructed of extruded aluminium alloy sections forming continuous riveted beams strengthened with reinforcing ribs and skinned with resin-bonded timber decking. The safe working load is 500lb., and the safety factor is 4 : 1.

SMALL BORE CENTRAL HEATING UNIT

Messrs. Baxi, Bamber Bridge, Lancs., are to market a packaged small bore central heating system, known as the Baxi-Pak, which is designed to operate with a Baxi fire and back boiler of the tubeless type.

The system consists of a radiator output boiler, radiators, with brackets and blanking piece, towel rail and compact electric circulating pump, the cost for a 16in. fire size, with four radiators, being £70 retail. For an 18in. size, which includes an extra radiator, the cost is £76 10s. The underfloor draught fire costs between £10 14s. 6d. and £18 18s. 3d., according to size and type of ash disposal unit.

DUNLOP EXPORTS UP 16 PER CENT.

Dunlop exports reached record heights during the first half of 1961—they show an increase of 16 per cent. over the same period last year and accounted for one-fifth of the home group's turnover.

The exports went to 150 countries. Dunlop also has more than 50 factories in 19 overseas countries.

SEAFORD PLANT HIRE, LTD.

With reference to the particulars of the above company appearing under "New Companies" in our issue of August 3, we have been asked to state that F. L. J. Suren is not a director and has no connection with the company. The directors are K. Mikolay and J. M. Mikolay.

Trade and Company News

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

Plant Hire Co. (Bolton), Ltd. £1,000. Directors: Wolf Rayden, 46 Crawford Street, W.1; Gunter J. Gellert, Sheepfield, Clapper Lane, Henfield, Sussex.

Metherell and Holmes, Ltd., Fleetwood, North Boarhunt, near Fareham, builders. £450. Directors: Leslie A. Metherell, 54 Carnarvon Road, Gosport; Horatio H. Holmes, Fleetwood, North Boarhunt, near Fareham; Leslie L. S. Williams, 4 Vian Close, Bridgemarky, Gosport.

C. Blackout, Ltd., builders. £2,000. Directors: James Monahan and Mrs. Susan Monahan, 26 Horseley Heath, Tipton, Staffs. Hobbs and Debling, Ltd., Wheatley Place, 17 Victoria Road, Margate, Kent, builders. £1,000. Directors: Malcolm J. Hobbs, 119 Park Avenue, Birchington; Arthur E. Debling, 69 Dane Road, Margate.

Jenner Lawson, Ltd., 134 Southwark Bridge Road, S.E.1, builders. £10,000. Directors: Richard P. Beamish, Fulbrook House, Elstead, Surrey; Oswald C. Cross, 15 Darnley Drive, Southborough, Kent; John L. Lawson, 58 Rofant Road, Northwood, Middx.

Leslie Kemp (Builders), Ltd., Century House, South Parade, Leeds, 1, £100. Directors: Max Bloom, 82a Allerton Grange Rise, Leeds, 17; Leslie Kemp, 1 Bagby Lane, Farsley, Pudsey; Israel R. Bloom and Mrs. Olga Kemp, D.M.J., Ltd., builders and contractors. £2,000. Directors: Gerwyn Davies, 67 Eastland Road, Neath; Melville G. Morgan, Belvedere, 3 Main Road, Bryncoch, Neath.

Harvey and Kerin, Ltd., 74 Spon End, Coventry, builders. £1,000. Directors: Sean Harvey, 160 St. Giles Road, Exhall, near Coventry; Anthony J. Kerin, 2 Arthingworth Close, Coventry.

O'Keefe of Kingston (Builders), Ltd., 60 Surbiton Road, Kingston on Thames, Surrey. £100. Director: John P. O'Keefe, 2 Surbiton Hall Close, Kingston, Surrey.

D. J. Hatto (Builders), Ltd. £100. Directors: Douglas J. Hatto and Ruth Hatto, 29 Goodchild Road, Wokingham.

Bartizen, Ltd., 6 Surrey Street, W.C.2, builders. £100. Directors: to be appointed by subscribers. Subscribers: S. H. Lucas and F. A. Dean, 6 Surrey Street, W.C.2.

Thomas Hazell, Ltd., Central Hall Buildings, South Road, Southall, Middx., building contractors. £1,000. Directors: Thos. Hazell and Alice A. Hazell, 47 Nightingale Way, Denham Green; Bernard D. Reed, Potters Cottage, Bangors Road South, Iwer Heath.

Wood and Casson (Builders), Ltd., 53 Anstable Road, Morecambe and Heysham, Lancs. £500. Directors: Donald Wood, 53 Anstable Road, Morecambe and Heysham; John G. Casson, 24 Thorpe Avenue, Morecambe; Dora Wood and Kathleen Casson.

H. and H. Construction Co. (Southend), Ltd., 41 High Street, Southend, builders.

£1,000. Directors: John D. Hemmings, 93 Benfleet Road, Hadleigh; Dennis B. Haigh, 168 Main Road, Hawkwell.

Decorating Services (Ealing), Ltd., 303 Chiswick High Road, W.4, contractors. £100. Directors: Jack Wheeler and Alma F. Wheeler, 54 Clovelly Road, W.5.

J. D. Taylor (Builders), Ltd., 152 Plumstead Road, S.E.18. £100. Directors: James D. Taylor, 15 Ruskin Road, Belvedere, Kent; Harold R. Hoydon, 70 Grangehill Road, S.E.9; and Mrs. J. A. Williams.

Eddy Plant Hire, Ltd., 31 Wyndham Street, Bridgend, Glam. £4,000. Directors: Cyril E. Eddy, Quarella Farm, Bridgend; Wm. V. Eddy, 29 Mackworth Street, Bridgend.

D. and M. Monks (Stockport), Ltd., 140 Shaw Heath, Stockport, builders. £1,000. Directors: Derek Monks and Marjorie Monks, 140 Shaw Heath, Stockport.

Steer and Partners (Builders), Ltd., 16a Bridge Street, Halesworth. £1,000. Directors: Jack A. Steer and Vera E. Steer, Wardspring Farm, Saxmundham.

Williams Bros. and Co. (Contractors), Ltd., Room 41, 81 Dale Street, Liverpool, 2, builders. £2,000. Directors: Mrs. Lilian Lowes, 44 Cresswell Street, Liverpool, 6; John W. Williams, 26 Pyramid Street, Liverpool, 5; Mrs. Lilian Williams and George E. Williams.

Castleton Construction, Ltd., 106 High Street, Colehill, near Birmingham, public works and building contractors. £600. Directors: John B. Upton, 70 Marlborough Road, Castle Bromwich; John Redmond, 15 Passfield Road, Kitts Green, Birmingham; Robt. W. Twist, c/o The Grange, Water Orton, Birmingham.

J. W. Cresswell, Ltd., builders. £20,000. Directors: John W. Cresswell (permanent) and Edith M. Cresswell, 4 Victoria Road, Pelsall, Staffs.

Site (Plant Hire), Ltd., £1,500. Director: Paul Walsh, Delph Dene, Quarry Lane, Appleton, Warrington.

Paine Bros. (Developments), Ltd., 109 Jermyn Street, S.W.1, civil engineers, public works contractors, etc. £1,000. Directors: George H. Paine and Mrs. Marjorie Paine, Parsonage Mansions, Piercing Hill, Theydon Bois, Essex; Cyril J. Paine and Mrs. Susan Paine, 1 St. George Terrace, N.W.1.

E. R. Steele (Building Contractors), Ltd., 6 Hamilton Avenue, N.9. £2,000. Directors: E. R. Steele, 6 Hamilton Avenue, N.9.

Crescent Hire Co. (Barnet), Ltd., 209 Crescent Road, New Barnet, Herts, plant hire contractors. £100. Directors: Gerald R. Smith, 12-14 Monmouth Road, W.2; Richard E. Smith.

Shotcrete (North), Ltd., 123 Jesmond Road, Newcastle upon Tyne, 2, painting, decorating and building contractors. £5,000. Directors: Archibald R. Scott, 2 Woolington Park South, Newcastle upon Tyne; Robert M. Murray, 23 Clock Road, Gourock, Renfrews.

J. McAllister and Sons, Ltd., 71 Crwys Road, Cathays, Cardiff, builders. £2,000. Directors: Charles J. McAllister and Joan McAllister, 71 Crwys Road, Cathays, Cardiff.

GOODENOUGH SEWAGE PURIFIER

GOODENOUGH PUMPS, LTD., 112 Jermyn Street, London, S.W.1, have constructed a small machine which will extract solids from any type of crude sewage and at the same time bring about a reduction in the biological oxygen demand of the sewage so that effluent discharged from the machine is at least equal to the average settlement tank effluent. Up to 100 gallons a minute have been dealt with by a prototype machine in a village sewage works.

The overall dimensions of the machine are 4ft. x 4ft. x 4ft. 6in. Dry sludge is collected within the machine in a specially designed bag which is easily removed, thus making the sludge suitable for immediate disposal on open lorries as it is in an inoffensive and almost completely dry condition. The machine has also been satisfactorily used for the partial purification of septic cesspool contents and the results have been encouraging insofar as the effluent is reduced to a strength comparable to that of crude sewage. It can therefore be easily dealt with by direct discharge into the traditional sewage disposal works without any modifications being necessary.

AUTOMATIC DOOR OPERATOR

Helmuth Heinz Bunzl, of Zurich, have appointed Bolton Gate Co., Ltd., Waterloo Street, Bolton, as U.K. selling agents for their Automatic Operator device for use on hinged and sliding doors.

The Automatic Operator is an electro-mechanical device which may be actuated from both sides of the door by a number of methods including a photo-electric cell, electric contacting floor mats using a 24-volt current and pressure mats of similar "pressure profiles" operating membrane contacts sensitive to pressure waves. A single-phase a.c. power supply is required and the operator unit is effective for doors within a wide range of sizes and weights. In the event of a power failure, it does not interfere with manual operation and the door can be locked in the normal way.

LAND-ROVER CONVERSIONS

Vehicles with special applications for building and civil engineering sites are being produced by R. J. Searle, Ltd., Thames Street, Sunbury, Middx., who specialise in Land-Rover conversions.

Based on the Land-Rover long wheelbase four-door station wagon is a personnel carrier to seat 12, suitable for difficult country and unmade sites. Another vehicle is the Mark II Cara-Wagon, which in addition to offering sleeping, washing and cooking facilities, may be used as a mobile site office. Features of the Mark II model include an elevating roof and an Elsan toilet.

CARTRIDGE-ASSISTED FIXING TOOL

Eighty to 100 fixings an hour can be made in masonry or steel with a new cartridge-assisted fixing tool, the Hilti DX500, made by Wordrew, Ltd., 35 Washway Road, Sale, Ches.

Several safety features are incorporated in the tool. It is impossible to use it unless the protection shield is in position, and the tool is within six degrees to the perpendicular, this ensures against ricochet. Discharge into free air is impossible and studs or pins cannot be driven in error through soft or thin walls.

EDDISON PLANT'S IPSWICH DEPOT

Eddison Plant, Ltd., announce that their new depot at Holywells Road, Ipswich, is now fully operational under the supervision of Mr. G. E. Lovell, their area representative. Mr. R. L. Francis, area manager, retains the overall control of their eastern counties area.



This Boughton side tip bucket is the first side tip bucket to be fitted to the Hough Payloader

Trade and Company News

METAL AIDS ANTI-CORROSION FIGHT

Use of Tantalum in Chemical Plants

THE hunt is on for new metals that can be used in the building of chemical plants.

Lack of suitable materials has been known to prevent the large-scale use of some new chemical processes already proved effective in the laboratory. And in existing plants, maintenance costs are high because the more common metals and alloys are far from immune to corrosive acids and high temperatures.

One of the most promising materials considered so far is tantalum, a bluish grey metal which resembles platinum in appearance and glass in its resistance to corrosion. It belongs to that group of elements known as the rare metals. Because it is rare and processes for recovering it are complicated, its cost is high.

Metallurgists at the Amsterdam Laboratory of Royal Dutch/Shell are nevertheless seeking ways of making it serve the chemical industry. They are studying methods of using it as liners for large pressure vessels, for if it were employed as a thin internal coating the cost would not be prohibitive.

Several Difficulties

Tantalum presents several difficulties, not the least of which is the lack of knowledge as to its fabrication into linings for large objects. It is a metal that cannot be welded in the presence of air because under these circumstances it becomes brittle. Also, welding it to other materials, like steel, results in an imperfect bond.

To overcome the problem of making tantalum welds in air, Shell engineers have adapted techniques of welding it in an inert atmosphere of argon, similar to those used for welding titanium. More accurate control of the welding condition is, however, necessary, because tantalum has a melting point of about 5,425 deg. F., and a strong tendency to warp. Jigs and fixtures are used so that the back of the weld can be protected with argon and warping is prevented.

In this way, simple welds can be made in the atmosphere, provided all parts of the joint near the torch are shielded with argon. But objects of intricate shape are

best welded in an argon-filled chamber or welding box. The same method is advisable for the welding of connections to tubes of small diameter.

Since tantalum cannot be welded to steel, the attachment of a tantalum liner to a steel vessel requires special tech-



Welding tantalum in an atmosphere of the inert gas, argon, at the Royal Dutch/Shell Amsterdam laboratory

niques. Methods are being developed similar to those applied for the construction of titanium linings, where strips of titanium are riveted on the inside of the vessel. Grooves of about 9mm. are left between each pair of parallel backing strips which serve as channels to distribute the argon supply. Argon reaches these channels when it is fed to the reverse side of the weld via holes drilled through the steel wall of the vessel. The panels of lining material are attached to the backing strips by spot welding and interconnected by means of overlapped fusion welds.

AIR-COOLED MEDIUM AIR COMPRESSORS

TWO new machines have been introduced into their range of contractors' equipment by Atlas Copco (Great Britain), Ltd., Maylands Avenue, Hemel Hempstead, Herts., to meet demand for medium-sized portable air compressors which are completely air-cooled.

The machines are the VT4 and VT5 compressors, driven by Ruston air-cooled engines. Capacity of the VT4 is 140 c.f.m. and of the VT5 220 c.f.m. Both are two-stage compressors mounted on twin tubular air receiver frames with torsion bar two wheel suspension and retractable front wheel, equipped with brakes for fast towing.

The compressors are bolted rigidly to the Ruston engines through bell housings and are driven through a Twiflex centrifugal clutch. Speed of the VT4 is 1,400 r.p.m. and of the VT5 1,560 r.p.m., and both machines have a normal working pressure of 100 p.s.i. The VT4 weighs 2,670lb. and costs £1,370, delivered in the U.K. Weight of the VT5 is 3,500lb., and the price is £2,050.

SWEDISH SITE COMMUNICATION SYSTEM FOR U.K.

The combined loudspeaker and ear-phone communication system specifically designed for outdoor use has been introduced into this country from Scandinavia by the sole concessionaires, Pin High Cranes, Ltd., 11 Buckingham Street, London, W.C.2.

Under the name of Telebygg, an installation consists of an amplifier unit, main instruments, loudspeakers and wiring. Calls can be made from any main instrument over the general-call circuit, and will be heard in all the loudspeakers at the same time. The person thus called goes to the nearest main instrument, lifts the handset, and is in immediate contact with the caller over the earphone line.

The system is simple to install, and is thus suitable for either permanent or temporary installation. It can be extended or moved with ease as erection progresses, and can be moved from one site to another without waste of wiring. Damaged cables can be renewed on the site.

ELECTRIC SPACE HEATING SYSTEM

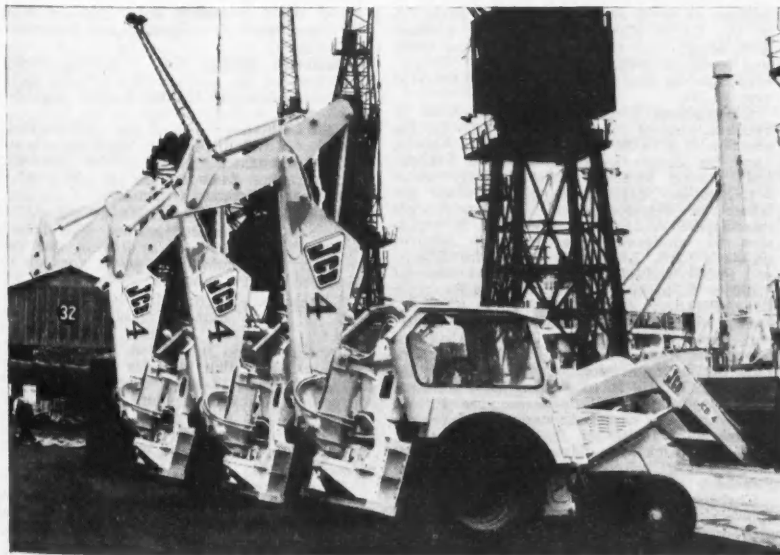
A "packaged" central heating and air circulation system which, it is claimed, will sell for a basic cost of under £100 for a three-radiator, clock and thermostat-controlled layout, has been announced by the Sterling Division of Land and General Developments Group, Dagenham, Essex.

This new Axiatherm system is based on a series of wall-fitted, electrically operated space heaters, all the heaters being controlled by a master time clock which can be set to switch them on and off at predetermined times. In addition each heater has its own output and thermostatic controls.

Air from the room is drawn into the space heater by means of a large capacity centrifugal fan and is then ducted over black heat elements and fed evenly and silently back into the room. The standard control unit supplied with the system will accommodate up to five radiators.

KILN FOR CHINNOR CEMENT WORKS

Vickers-Armstrongs (Engineers), Ltd., Vickers House, London, S.W.1, have secured a £250,000 contract for the supply and installation of a new rotary kiln at the Oxfordshire works of Chinnor Cement and Lime Co., Ltd. The kiln, incorporating devices to increase fuel efficiency, will increase the existing capacity of the works by 25 per cent.



An order for 15 JCB 4 excavators was recently received by J. C. Bamford (Excavators), Ltd., Rotherham, Staffs., from their distributors for Norway and Sweden. Three of the machines are seen here awaiting shipment at Hull Docks

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Aldershot, Hants.—Working drawings in hand for the erection of Aldershot Camp (two-form entry) County Junior School for C.C.

Alnwick, Northumb.—The Trustees of the Diocese of Hexham and Newcastle upon Tyne propose R.C. primary school at Willoughby Bank, Clayport Street.

Andover, Hants.—Pinckney and Gott, 7 Gray's Inn Square, London, W.C.1, are the architects, and Davis Belfield and Everest, 9 Ashley Place, London, S.W.1, the quantity surveyors for the erection of a parish church. Scheme not yet out to tender.

Andover, Hants.—C.C. recommended to approve, in principle, scheme for an extension to Eastfield House Home for the Blind, estimated cost £21,500; sketch plan prepared for extension to Portway County Infants' School.

Argyllshire.—C.C. have approved amended plans for new offices at Dunoon. Estimated cost £73,000.

Aylesbury, Bucks.—C.C. to apply for sanction to borrow £234,920 for erection of the new Weedon Road junior school.

Banstead, Surrey.—Co. Planning Committee have approved the erection of an extension at the rear of Council Offices, for U.D.C.

Barnet, Herts.—Nadine Beddington, 301-307 Oxford Street, London, W.1, is the architect for the erection of four shops with stockrooms and staff rooms above and lock-up garages and car parks at the rear at 108-112 High Street for Freeman, Hardy and Willis, Ltd.

Barnsley, Yorks.—M.E. have approved in principle E.C.'s proposals for provision of a youth centre in the former Ardsley Oaks Secondary School at an estimated cost of £3,725, and a youth wing at Athersley, £9,250.

Basingstoke, Hants.—C.C. are preparing working drawings for extensions (phase II) at Queen Mary's Boys' School and erection of South Ham (two-form entry) Junior School, preliminary scheme for adaptations and new mid-day meals kitchen at Fairfields County Junior School, and sketch plan for additional accommodation at Preston Condover C.E. (Controlled) School; approve sketch plans for youth wing at the Hurst County Secondary School, Baughurst.

B.C. recommended to approve revised scheme for an indoor swimming pool including two car parks at South Ham.

Belford, Northumb.—The Diocese of Hexham and Newcastle upon Tyne propose Church and Presbytery. The architects are Reavell and Cahill, Lloyds Bank Chambers, Alnwick.

Bexley, Kent.—B.C. recommended to appoint Dearnley and Henderson, 75 Victoria Street, London, S.W.1., as quantity surveyors and Stinton Jones and Partners, 21 Gloucester Place, London, W.1, as consulting engineers for the development of Bexley Technical School for Girls and Bexleyheath Secondary Schools; Dowton and Hurst, 10 Portman Street, London, W.1, as architects for the development of Foster's Primary School; authorise C. John Mann and Sons, quantity surveyors, 25 Bedford Row, London, W.C.1, to prepare the bills of quantities for improvements to the sanitary provision at Hook Lane County Primary School; proceed with the preparation of preliminary drawings for the erection of a Lakeside cafe, a boathouse and public conveniences at Danson Park, estimated cost £30,000.

B.C. to prepare detailed plans for the provision of covered swimming baths at Crook Loz, Bexleyheath. Estimated cost £300,000.

Billingham-on-Tees, Dur.—Factory additions are proposed at Haverton Hill Road for British Titan Products, Ltd.

Bishop Auckland, Dur.—Auckland Motor Services, Ltd., Railway Street, propose motor showrooms.

Bishop Auckland, Dur.—A furniture depository is proposed for Charles Hall, Ltd., London, W.8, and plans are being considered. The architects are M. C. Robson and Son, Station Chambers, 245 Newgate Street.

Bishop's Stortford, Herts.—U.D.C. have approved outline plans for the erection of a new civic centre on the north side of the Causeway, incorporating a Town Hall, Council offices, fire station, swimming bath, cattle market and car parks.

Bishop's Waltham, Hants.—C.C. recommended to approve scheme for improvements to old school buildings at Bishop's Waltham County Primary School. Estimated cost £1,088.

Blyth, Northumb.—A scheme is being considered for the erection of a youth centre, for the Blyth Central Methodist Youth Council. The architects are S. W. Milburn and Partners, 9 Esplanade, Sunderland. Estimated cost £26,000.

Bristol.—A. B. Reid, 16 Charlotte Street, Bristol, 1, is the architect, and R. H. Mildred, 3 St. Pauls Road, Clifton, Bristol, 8, the quantity surveyor, for the erection of industrial premises at Newfoundland and Wilson Terrace, for R. Alger and Sons, Ltd. Planning in detail for quantities proceeding at present, together with certain demolitions on site. Project in early stages as yet. Estimated cost £25,000.

Burnley, Lancs.—Peter R. Nuttall, architect, Westwood Chambers, 5 Kay Street, Rawtenstall, Rossendale, Lancs., is preparing sketch plans for extensions to St. Hilda's School, estimated cost £50,000, and motor vehicle workshop, repair, washing and petrol sales area at Trafalgar, for Holden and Hartley, Ltd., £50,000.

Buxton, Derbys.—B.C. have prepared revised plans for the conversion of the Natural Baths into a swimming bath. Estimated cost £80,000.

Camberwell.—L.C.C. town planning approval is being sought for flats and houses, to include an 11-storey block, at 152-154 College Road, for which the architects are George Watt and Partners, 146 Mostyn Road, London, S.W.20.

Carlisle, Cumb.—Adamson and Co., Handysides Arcade, Newcastle upon Tyne are seeking a site on the Willowholme Industrial Estate, for the erection of new premises.

L. G. Mouchel and Partners, 24 Claremont Place, Newcastle upon Tyne have been appointed structural consultants, for a new laundry and boilerhouse at the General Hospital, for Newcastle Regional Hospital Board.

Chelmsford, Essex.—B.C. recommended to approve plans and appoint E. Dudley Smith and Partners, 139 London Road, Chelmsford as quantity surveyors and Truseon, Ltd., Birmingham as structural engineers for phase III of the Cattle Market development; proceed with scheme for the provision of new baths and basins in a further 150 houses in Brownings Avenue and Eves Crescent. Estimated cost £8,394.

Cheltenham, Glos.—B.C. recommended to approve, subject to conditions, plans for the erection of a 58,000 sq. ft. building at Alstone Lane for Gloucestershire Marketing Society, Ltd., Market Street; Territorial Army centre with ancillary garages at Arle Road for the Gloucester Territorial and Auxiliary Forces Association, Alstone Lane; 8,596 sq. ft. extension to wholesale department on site of builder's yard, Brunswick Street, for Sharpe and Fisher, Ltd., Pittville Street; extension of 4,200 sq. ft. to industrial premises at Bouncers Lane, Prestbury for M. H. Godden (Cheltenham), Ltd.; petrol filling station, service station and showrooms, etc., at Malvern Sidings, Gloucester Road, for Petrofina (Great Britain), Ltd.; outline application for three-storey extension of 29,100 sq. ft. to existing shop premises at Liverpool Place/High Street for F. W. Woolworth and Co., Ltd.; commercial vehicle workshop of 14,400 sq. ft. on part curtilage of Webb's Brickworks, Hales Road, for Victory Motor Co. (Cheltenham), Ltd., Wincombe Street.

Christchurch, Hants.—C.C. recommended to approve, subject to Home Office approval, the provision of a civil defence training centre and sub-area control at Christchurch. Estimated cost £20,000.

Darlington, Dur.—Plans have been prepared by J. M. Angus, 3 Gallowgate, Newcastle upon Tyne, for alterations to Darlington Social Club

and Institute, Northgate. It is proposed to erect R.C. primary school at Kingsway, and the architects are Crawford and Spencer, 91 Borough Road, Middlesbrough; Maypole Dairy Co., Ltd., are to carry out a shopping development scheme at Skinnergate, to plans by Eric Firmin and Partners, Thavies Inn House, Holborn Circus, London, E.C.1; Durham Diocesan Board of Finance, The College, Durham City, are planning developments on the site of the T.A. centre at Westmoreland Street, including the construction of motor-car showrooms.

Dorset.—C.C. have approved for inclusion in the capital estimates, schemes for extensions to Kemp Welch Modern Schools, extensions to Ferndown Modern School, erection of Upton Primary School and second phase of Blandford Camp Primary School. Estimated cost £23,500, £51,000, £59,000 and £35,100 respectively.

Dukinfield, Ches.—B.C. recommended to approve, subject to conditions, plans for the erection of offices, storage and sales room at 106-122 Wharf Street for the British Transport Commission.

Durham.—C.C. are to erect an infants' school at Sunnyside, and K. Kennedy, 1 The Drive, Gosforth, Newcastle upon Tyne, has been appointed architect; Simpson, Lawson and Partners, Emerson Chambers, Blackett Street, Newcastle upon Tyne, are the architects for the Heighington C.E. Junior and Infants' School for the C.C.

Durham.—Newcastle upon Tyne Regional Hospital Board, have submitted to the Ministry a scheme for the construction of a triple operating theatre suite and central sterile supply department at Dryburn Hospital. Estimated cost £110,000.

W. and T. R. Milburn, 4 Grange Terrace, Sunderland, and Hall and Stafford, Sunnyside Chambers, West Sunnyside, Sunderland, have been appointed architects and quantity surveyors respectively, by the C.C. for a proposed grammar/technical school at Annfield Plain.

Tarren and Callier, 16 Great North Road, Newcastle upon Tyne have been appointed architects for the following new schools for C.C.—Eggleston C.E. Controlled School, Hamsterley Junior and Infant School, Hutton Henry C.E. School, and Shadforth C.E. School. The quantity surveyors for all the schools except Shadforth, are Turner and Townsend, 71 Woodland Road, Darlington.

The Durham Divisional Coal Board, Team Valley Estate, Gateshead are to erect a maintenance centre at Sherburn Hill Colliery.

East Barnet, Herts.—Middlesex C.C. recommended to approve plans for the erection of an old people's home at Ashfield Road.

U.D.C. have approved, subject to conditions, plans for additional storey on the proposed office extension at 58 Edward Road, for the British Die Casting and Engineering Co., Ltd.

Eastleigh, Hants.—C.C. preparing working drawings for the erection of a new fire station and the Alderman Quilley County Secondary School.

East Lothian.—South of Scotland Electricity Board, 52 Melville Street, Edinburgh, 3, propose to construct a coal-fired generating station on a 244-acre site to the west of Cockenzie. Estimated cost £60m.

Edinburgh.—Royal Infirmary Board of Management propose upgrading several wards in the hospital and improving the east entrance gate, including a public convenience. Estimated cost £77,000.

Edinburgh.—Murrayfield Real Estate Co., Ltd., 7 Albany Place, Edinburgh, 2, are to prepare a scheme for the development of Waverley Station for British Transport Commission. The plan includes the replacement of the present 18-acre railway station by a three-tier structure housing car park, offices and shops and a composite booking hall and other station amenities above a bottom-tier containing platforms and essential administrative buildings. Estimated cost £5m.

Elland, Yorks.—West Riding Co. E.C. have approved development plant at St. Patrick's R.C. (Aided) School, providing for indoor toilets, improved cloakroom and scullery facilities, and the use of the top floor of the three-storey building, which was formerly occupied by the church. Estimated cost £7,130.

Exmouth, Devon.—U.D.C. have approved, in principle, scheme for the redevelopment of

the cliff danger zone at the Orcombe end of the seafont, to include a new pedestrian promenade and deckchair terrace, a new modern cafe, a large public shelter and new toilets, estimated cost £30,000; are to consider the provision of a covered and heated swimming pool at the Imperial Recreation Ground, £120,000.

Fareham, Hants.—C.C. preparing working drawings for the erection of a fire station at Wickham and bills of quantities for Phase I of Park County Infants' School; have approved sketch plan for youth wing at the county secondary school.

E. J. Thomas, Jolly and Grant, 26 Kent Road, Southsea, Portsmouth, are the architects for the erection of a factory at R.A.F. Station, Titchfield, for the Plessey Co., Ltd.

Farnborough, Hants.—Working drawings in hand for the erection of Grange (three-form entry) County Junior School, for C.C.

Fifeshire.—Planning Committee have approved the following: Erection of steel framed building for use as a heavy fabrication shop at Mountfleure, Leven, for H. Balfour and Co., Leven, estimated cost £100,000; erection of an ice factory, cold store, etc., in Abbey Wall Road, Pittenweem, for David Lawrie, Davelen, James Street, Pittenweem, £50,000.

Flint.—Ministry have approved B.C.'s scheme for the erection of a new Guild Hall and Civic Centre on the Pendre site in Church Street and Chapel Street tenders are to be invited.

Gateshead, Dur.—Alterations and additions are proposed in Coatsworth Road, for the London and Newcastle Stores, Ltd. The architects are G. H. Gray and Partners, 8 Portland Terrace, Newcastle upon Tyne; Fennell and Baddily, Bridge End Chambers, Chester-le-Street, are the architects for club premises at Derwentwater Road for the Teams and District Social Club; R.C. Diocese of Hexham and Newcastle upon Tyne propose new St. Aidan's R.C. Secondary Modern School at Fell Dyke Foot. The Diocese solicitors are Hedley and Thompson, 11 Toward Road, Sunderland; Sanderson, Townend and Gilbert, 3 Mosley Street, Newcastle upon Tyne, are to rebuild shop premises at 64-68 West Street.

Glasgow.—City Council are to develop two 60-acre industrial estate sites at Balmore and Sighthill. The council are to negotiate with Crudens, Ltd., Olive Bank, Musselburgh, Midlothian, for the construction of the Sighthill estate.

Glasgow.—The Jewish Old Age Home for Scotland, Newark Drive, Glasgow, propose erecting additional accommodation and a hospital wing.

Gosport, Hants.—Working drawings in hand for the erection of Grange (two-form entry) County Junior School and sketch plan being prepared for Gosport Day Special School for C.C.

Co. E.C. have approved sketch plans for youth wing at Bridgemary Girls' County Secondary Girls' School.

Hartlepool, Dur.—Plans have been prepared by T. H. Turnbull, 6 Scarborough Street, West Hartlepool, for replacing a factory for the Hartlepool Ropery Co., Ltd.

Hatfield, Herts.—Standing Joint Committee have approved scheme for alterations at Hertfordshire police headquarters to provide store rooms and office accommodation, etc. Estimated cost £3,000.

R.D.C. recommended to approve improvements to 61 pre-war Council houses at Stockbreach Road and Lemsford Road. Estimated cost £13,992.

Havant, Hants.—C.C. preparing bills of quantities for extensions to Oak Park Boys' and Girls' Schools.

Hayes, Kent.—Central and Provincial Properties, Ltd., 13 New Bridge Street, London, E.C.4, invite applications from contractors for inclusion in a selected list from which tenders will be invited for the erection of a supermarket with two lock-up shops adjoining, for Bampton Property Group. Langdon and Every, 5 Cumberland Place, Southampton, are the quantity surveyors. Estimated cost £36,000.

Hebburn, Dur.—A large new stores building is to be built at the works of A. Reyrolle and Co., Ltd., to plans by Cackett, Burns Dick and Mackellar, 21 Ellison Place, Newcastle upon Tyne.

Huntingdon and Godmanchester, Hants.—B.C. recommended to approve in principle plan for proposed bus station at Lawrence Court.

Jarrow, Dur.—Borough Engineer has prepared plans for extensions to the Corporation Baths in Walter Street.

Kendal, Westmor.—B.C. recommended to submit to Ministry for approval, layout plans for structural alterations and extensions at the slaughterhouse.

Kent.—E.C. propose the conversion of either the Medway Technical School for Girls at Fort Pitt, or Holcombe, the Chatham Boys' Technical School on the Maidstone Road, to

a junior branch of the Medway College of Technology, during next year. Estimated cost £500,000.

Lanarkshire.—Co. E.C. propose extensions to the boys' and girls' toilets at Airdrie High School. Estimated cost £7,250.

Liverpool.—North and Partners, 40 Broadway, Maidenhead, Berks., are the architects for rebuilding of premises at corner of Lord Street and Whitechapel for Hope Brothers.

Loughborough, Leics.—B.C. recommended to approve plans for showroom and offices at 33-34 Market Place for the East Midlands Gas Board, University Road, Leicester.

Maidenhead, Berks.—Ministry have approved in principle, the residential development of land at Cherry Orchard, Cookham Road, and have approved, subject to conditions, plans for the erection of seven shops, 14 flats, four maisonnettes, and a petrol filling station etc., at the Laggan House site, for McManus and Co., Ltd., 54 Station Road, New Barnet, Herts.

Maryport, Cumb.—Plans have been prepared by N. M. Phillips, Grosvenor House, Warwick Square, Carlisle, for the erection of an infants' and junior school, and tenders are being obtained.

Middlesbrough, Yorks.—Middlesbrough Co-operative Society, Ltd., The Emporium, have taken over the firm of Baker Brothers, and are considering erecting a 50,000 sq. ft. store on the site.

Newcastle upon Tyne.—R. Sleightholme, Ltd., St. Oswin's Place, Tynemouth, are to erect £12,000 home for single people at St. John's Road.

Henry Moat and Sons, Brandling Park, Newcastle upon Tyne, are planning developments at their premises at Walker.

Newcastle upon Tyne.—Erection of child welfare centre at Longbenton, for C.C. C. C. Brown, county architects, R. Anderson, Ltd., Stanmore Road, Newcastle upon Tyne, £29,550.

Additions to Byker and Heaton, British Legion Club, Shields Road—J. and A. Oliver (Contractors), Ltd., Akenside House, The Side, Newcastle upon Tyne.

Nelson, Lancs.—C.C. have submitted to the Ministry for approval plans for the erection of a new 10-bay ambulance station for inclusion in the 1962-63 programme. Estimated cost £22,850.

North Lonsdale, Lancs.—R.D.C. have approved the erection of a toilet block at the Summer Hill caravan site, Carmel Fell.

Northumberland.—Co. Health Committee have revised their building programme for the current year, which now includes new child welfare centres at Wallsend, Monkseaton, and Ponteland, additions to Ashington child welfare centre, and the erection of a junior training centre at Alnwick.

Nottingham.—City Council have approved in principle plans for the erection of a new branch library at Dunkirk, on the corner of Gregory Street and Abbey Bridge and construction of a multi-storey car park in Trinity Square. Estimated cost £15,000 and £109,000 respectively.

Ormskirk, Lancs.—U.D.C. recommended to approve site for new police station and garages in Burscough Street.

U.D.C. have approved scheme for provision of a new central depot in Green Lane, subject to Ministry approval, estimated cost £35,000.

Otterburn, Northumb.—Otterburn Workmen's Club are to erect new club premises, and plans are being prepared by W. H. Williamson and Partners, 7 St. Mary's Place, Newcastle upon Tyne.

Ottery St. Mary, Devon.—Mec Test-McCabe Communications, Tale House, Payhembury, Honiton, propose the erection of a new factory in Yonder Street.

Peterborough.—City Council recommended to approve plans for erection of a church hall at All Saints Church, Paston Ridings, for the Parochial Church Council of All Saints.

Plymouth, Devon.—City Council recommended to approve, for submission to M.E. for approval, sketch plans for proposed new building at West Whiteleigh to replace the existing Wolsdon Street School for Handicapped Boys.

Portsmouth.—Sketch plan prepared for the erection of Cowplain Park (three-form entry) County Infants' School, for C.C.

Prestwick Airport, Ayr.—Ministry of Aviation propose the erection of an hotel. Estimated cost £750,000. Tenders are expected to be invited in September.

Prudhoe, Northumb.—U.D.C. recommended to construct a health centre in Adderlane Road.

Ramsgate, Kent.—B.C. recommended to approve, subject to conditions, outline plans for the demolition of existing buildings and erection of shops, showrooms, 13 flats, bowling centre and parking space for 33 cars, at 112/114, High Street and land in Monkton Place and rear of 124 High Street, for

Westmont, Ltd., c/o Allister MacDonald and Partners, architects, Aldine House, 10-13 Bedford Street, London, W.C.2.

B.C. recommended to prepare plans for the provision of further chalet block, public conveniences and cafe over the undercliff road at Western undercliff.

Ramsgate, Kent.—Co. E.C. propose the provision of additional changing and sanitary accommodation, etc., at Chatham House Grammar School. Estimated cost £5,000.

Rotherham, Yorks.—B.C. recommended to approve, in principle, the development of land bounded by Broom Valley Road, Brunswick Road, Guest Road and Oxley Grove, for shops and maisonnettes.

B.C. have approved planning permission for extensions at the Greasbro' Social Club. Estimated cost £2,000.

Rugby, War.—B.C. recommended to approve plans for extension of licensed premises, The George Inn, Bilton, for Ansell's Brewery, Ltd., Aston, Birmingham, 6.

Ruislip-Northwood, Middx.—U.D.C. are to invite tenders from selected contractors, subject to grant aid, for the erection of a swimming bath at Highgrove, Eastcote Road, Ruislip.

St. Austell, Corn.—Cophall Holdings propose the construction of a new precinct shopping area, with approximately 40 shops, supermarkets, offices, flats, an hotel and car parking facilities at the New Town Centre, Allister MacDonald and Partners, 10 Bedford Street, London, W.C.2, are the architects. Work is expected to commence in nine months time.

St. Marylebone.—Recent applications for L.C.C. town planning approval include the following: Shops and flats, etc., at 1-26 Sussex Place and 36-98 Park Road, for which the architects are Trehearne and Norman Preston and Partners, 83 Kingsway, London, W.C.2; multi-storey car park at Bolsover Street, Greenwell Street, Great Titchfield Street and Carburton Street, for which the architects are Riley and Glanfield, 6 Raymond Buildings, Gray's Inn, London, W.C.1; new wing for London Clinic at 141-145 Harley Street and 27-29 Devonshire Mews, for Trustees of London Clinic.

Salford, Lancs.—City Council recommended to apply for sanction to borrow £2,440 for demolition of the covered way at Ordsall flats and for the removal of the existing concrete roof, columns, and upper portions of brick wall, and making a new concrete coping to the lower portion of the wall.

Sandy, Beds.—U.D.C. recommended to approve scheme for the modernisation of 42 houses at St. Neots Road, West Road and Cambridge Road.

Scarborough, Yorks.—Wilkinson, Smith and Brittlebank, architects, Martins Bank Chambers, are preparing plans for motor showroom at St. Thomas Street for Modern Properties, Ltd.

Scunthorpe, Lincs.—B.C. recommended to approve plans for erection of a filling station at Ferry Road for Laynes Garage, Ltd.; club and institute with domestic quarters over at Modder Street/Ashby High Street for Ashby Workmen's Club and Institute, Ashby High Street.

Sedgefield, Dur.—Plans are being considered for the erection of offices and showrooms at West Cornforth for Hepplewaite, Ltd. The architects are Tarren and Callar, 24 Front Street.

Selby, Yorks.—Central and Provincial Properties, Ltd., 13 New Bridge Street, London, E.C.4, invite applications from contractors for inclusion in a selected list from which tenders will be invited for the erection of a supermarket and two adjoining lock-up shops. Elsworth Sykes and Partners, 5 Maddox Street, London, W.1, are the quantity surveyors. Estimated cost £28,000.

Shoreditch, Dur.—Recent applications for L.C.C. town planning approval include the following: Flatted factories at Caesar Street, for which the architect is A. M. Tribich, 51 Nethercourt Avenue, London, N.3; reconstruction of 139-149 City Road, with a tower block, for which the architects are George Baines and Syborn, 121 Victoria Street, S.W.1.

Southampton.—Hampshire C.C. recommended to approve the provision of gardening classrooms at Hamble County Secondary and Swanmore County Secondary Schools. Estimated cost £1,209 each.

South Shields, Dur.—The Harlow Printing Works, Frederick Street, are to erect new works in Maxwell Street. The architect is C. Solomon, 30 St. Mary's Place, Newcastle upon Tyne.

Plans have been prepared for the erection of a 40,000 sq. ft. factory for the Industrial Estates Management Corporation, Team Valley, Gateshead. The architects are Jack Cotton, Ballard and Blow, 48 Pilgrim Street, Newcastle upon Tyne.

Two youth clubs, costing £20,000, are proposed by the B.C. The buildings are

expected to be prefabricated structures, and private architects may be appointed. Preliminary plans have been prepared by Page, Son and Hill, 75 King Street, for proposed additions to Harton Junior Boys' and Girls' School. The cost will be £8,250. Plans are being prepared by C. K. Luke, 28 Fowler Street, for the erection of a warehouse at Maxwell Street for F. Stephenson; plans approved for the erection of a filling station on the site of the Pavilion Cinema, Western Approach, for the Regent Oil Co., Ltd. The architects are the Anthony Forrest Partnership, Middleton House, Middleton-in-Teesdale; J. D. Coxon, 14 Grey Street, Newcastle upon Tyne, is the architect for the rebuilding of Martins Bank, Stanhope Road.

Spennymoor, Dur.—Vaux and Associated Breweries, Ltd., Sunderland, are to modernise the Shafto Arms public house at Byers Green.

Stanley, Dur.—Additions are proposed to workmen's club at Craghead to plans by J. M. Angus, 3 Gallowgate, Newcastle upon Tyne; N. Maugham, 7 Busty Bank, Burnopfield, is considering erecting a bakery on the site of the Derwent Cinema, Burnopfield. U.D.C. propose crematorium at Mountsett, Dipton.

Stepney—L.C.C. town planning approval is being sought for an out-patients' department at London Hospital, for which the architects are T. P. Bennett and Son, 43 Bloomsbury Square, London, W.C.1.

Stockbridge, Hants.—C.C. recommended to approve the provision of gardening classroom at Stockbridge County Secondary School. Estimated cost £1,209.

Stoke-on-Trent, Staffs.—J. Clarke, 86 Moorland Road, Burslem, are the architects for the erection of a Methodist church, church hall, Sunday school and ancillary buildings off Magdalen Road, Blurton, for the Blurton Methodist Church Trustees.

Sunderland, Dur.—Additions are proposed at Clifford Street for the Northern Laundry, Ltd. G. T. Brown and Son, architects, 14 Grange Terrace, Stockton Road.

Tadley, Hants.—Sketch plans being prepared for extensions to the County Primary School for C.C.

Taunton, Som.—B.C. recommended to approve revised plans for the redevelopment of the Cattle Market. The work will be done in stages, starting with the cattle section in November this year, and the whole will be completed in 1966. Total estimated cost £200,000.

M.E. have approved the erection of a new county secondary school at Musgrove, for South West Somerset Education Executive.

Twickenham, Middx.—B.C. recommended to approve scheme for the provision of a pavilion at the new Broom Road recreation ground, Teddington. Estimated cost £20,000.

Tynemouth, Northumb.—North Shields Co-op. Society, Ltd., Camden Street, North Shields, are negotiating for the purchase of premises at Waterville Road, North Shields, for conversion into a milk distribution centre.

Tyrone—Co. E.C. is to erect a secondary intermediate school at Newtownstewart.

Wallasey, Ches.—B.C. are to negotiate with the British Transport Commission for the purchase of land between the disused Seacombe railway line and the junction of Dock Road and Gorseley Lane for use as a light industrial estate.

Wallsend, Northumb.—B.C. approved outline plans for child welfare centre at Camberley Road for C.C.

Waterlooville, Hants.—C.C. recommended to approve the provision of two additional classrooms at Waterlooville County Junior School. Estimated cost £3,250.

Watford, Herts.—B.C. have approved plans for extensions to the factory at Chalk Hill, Oxhey, for Mark Anthony and Sons, Ltd.

R.D.C. have no objections to plans for an extension to Radlett Infants' School for C.C.

Welling, Kent.—J. Stevens (Builders), Ltd., Marwood Close, Welling, propose the erection of a shopping centre on the site of the Embassy ballrooms.

Westminster.—Recent applications for L.C.C. town planning approval include the following: Redevelopment of Chatham House, 6 Duke of York Street, for which the architects are Lutvans and Greenwood, 13 Mansfield Street, London, W.1; club showrooms and offices at Devonshire Club, St. James's Street, for which the architects are Louis de Soissons, Peacock, Hodges and Robertson, 3 Park Square Mews, W.1.

West Riding—Co. E.C. have approved complete rehabilitation of Upper Whitley Primary School. Estimated cost £22,000.

Whickham, Dur.—J. W. Ellis and Co., structural engineers, are to extend their Longrigg Works.

Whiston, Lancs.—R.D.C. Planning and Development Committee have approved, subject to conditions, plans for the erection of a

church and church hall on land at Clock Face Road, Bold, for the Rev. D. A. Bullen.

Wicklow, Eire.—A State company is to be formed to construct a nitrogenous fertiliser factory at Arklow. Estimated cost £7m.

Wigan, Lancs.—Planning Committee have approved the erection of a four-storey office block in Bridgeman Terrace, for Norwich Union Insurance Society, Norwich.

Ministry have approved the erection of a new cleansing depot and garage block at rear of Miles Lane, Shevington, for R.D.C. Estimated cost £5,600.

Southport, Lancs.—B.C. recommended to approve plans for erection of public conveniences at junction of Liverpool Road and Shaws Road.

Wimbledon, Surrey.—Tenders are to be invited within the next two months for the erection of a Premier supermarket. H. A. Halpern and Partners are the architects, and R. J. Playle is the quantity surveyor, both of 58 Cannon Street, London, E.C.4.

Winchester, Hants.—Hampshire and Isle of Wight Police Authority have approved, in principle, preliminary plans for new eight-storey headquarters on site of existing headquarters at West Hill.

Co. E.C. preparing sketch plans for the first instalment of Otterbourne C.E. (Controlled) Primary School.

ELECTRICAL

Caithness.—The North of Scotland Hydro-Electric Board, 19 St. Vincent Place, Glasgow, C.1, are to extend their 132-kV main transmission network from Mybster to the outskirts of Thurso, consisting of 10½ miles of steel tower line of double circuit construction.

Sheffield.—City Council recommended to appoint the Tinsley Electric Co., Ltd., 303 Sheffield Road, Sheffield, 9, to prepare scheme for electrical installation in connection with new Central Technical School.

Southport, Lancs.—B.C. recommended to apply for sanction to borrow £1,714 for improvements to electrical installations at Holy Trinity C.E. Primary School.

FENCING

St. Helens, Lancs.—B.C. have approved the fencing and cleaning up of the Cabbage Hall allotment site in City Road. Estimated cost £2,920.

Scunthorpe, Lincs.—B.C. recommended to approve the provision of fencing at Manley Street playing field. Estimated cost £725.

GAS AND WATER SUPPLY

Darlington, Dur.—B.C. recommended to apply for sanction to borrow £10,000 for water mains extensions and £5,000 for water services.

Dewsbury, Yorks.—B.C. recommended to apply for sanction to borrow £2,600 for relaying of a 4in. water main in The Raikes, Birstfield.

Gower, Glam.—R.D.C. to apply for sanction to borrow £35,000 for the construction of an additional reservoir at Cefn Bryn.

Harrogate, Yorks.—Claro Water Board to apply to Ministry for sanction to borrow £271,000 for water scheme to link Harrogate to the Eagle level supply, 13 miles away, near Pateley Bridge.

Ipswich, Suffolk.—B.C. to apply for sanction to borrow £18,142 for the construction of a booster station to serve the north east area and a pumping station at Park Road.

Lancaster.—Lune Valley Water Board to proceed with laying a new trunk water main to improve the water supply to the Morecambe and Heysham district, between Owen Road and Scale Hall corner early next year. Estimated cost £23,500.

Limavady, Londonderry.—Ministry of Health have approved, in principle, the proposed regional water scheme—River Roe, for R.D.C. Estimated cost £432,000.

Loughborough, Leics.—B.C. recommended to apply for sanction to borrow £6,000 for laying various water mains extensions.

Nottingham.—City Council recommended to apply for sanction to borrow £57,255 for the development of the Ompton pumping station.

Ramsgate, Kent.—Thanet Water Board to apply for sanction to borrow £12,800 for the reconstruction of the Lord of the Manor pumping station.

Wolverhampton, Staffs.—B.C. have approved schemes for laying 6in. diameter water mains at Bloxwich Road-Short Heath, Great Bridge Road, Moxley, and Sutherland Place and 15in. main in Pond Lane. Estimated cost £3,600, £4,180, £1,514 and £11,640, respectively.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Newport, Mon.—Richard Thomas and Baldwins, Ltd., have applied to M.T. for permission to carry out surveys and investi-

gations into scheme for the construction of a deep-water terminal on the banks of the River Severn between Newport and Goldcliff.

HEATING AND VENTILATING

Hailsham, Sussex.—R.D.C. recommended to approve scheme for the installation of hot water systems at 1 and 3 to 8 The Fridays, East Dean. Estimated cost £1,400.

Sheffield.—City Council recommended to appoint the Brightside Heating and Engineering Co., Ltd., Ecclesfield, to prepare scheme for installation of mechanical services and hot water supply in connection with the new Central Technical School.

Wolverhampton, Staffs.—B.C. have approved the appointment of Hoare Lea and Partners, 23 St. James Road, Birmingham 15, as heating, hot and cold water and electrical consultants for the enlargement of Highfields Secondary School.

HOUSING SCHEMES

Atherton, Lancs.—U.D.C. have approved scheme for the erection of 36 two-bedroom houses, 38 three-bedroom houses, 36 garages, four shops with living accommodation, and four garages on the Hag Fold North estate.

Ayr.—Dean of Guild Court have approved the following: A private housing scheme at Knoweholm, Doonfoot, for Mactaggart and Mickel, Ltd., 107 West Regent Street, Glasgow, estimated cost £33,000; private housing on two undeveloped areas on the West side of Meadowpark, for William Paton and Sons, Ltd., 19 Kyle Street, Ayr, £16,000.

Bangor, Caerns.—B.C. recommended to invite tenders for the conversion of Plasllwyd, William Street, into three two-bedroom flats, estimated cost £2,350, and the erection of a two-storey block of eight flats in the adjoining garden.

Basildon, Essex.—U.D.C. have prepared draft layout plan for aged persons' bungalows on land near Keatsway consisting of 14 double units and 26 single units. Fourteen prefabs are at present on the site.

Beebles, Suffolk.—B.C. recommended to instruct Meen and Collis, architects, Station Road, to prepare plans for 18 units of accommodation plus garages at Banham Road site; submit to County Planning Committee for approval scheme for housing development at Rigbourne Hill Lane site.

Belford, Northumb.—R.D.C. to prepare plans for the development of land at St. James Street, Seahouses, for housing, a Church, playing field and playground.

Berwick, Northumb.—B.C. propose flats at the Woolmarket and at Ravensdown.

Brightlingsea, Essex.—U.D.C. have approved plans for the erection of 55 bungalows and chalets at New Maltings estate, Church Road, for North Essex Estates Buildings Co., 3 Sydney Street Brightlingsea.

Chatham, Kent.—B.C. recommended to approve, subject to conditions, plans for the erection of dwellings and layout of roads at Robin Hood Lane for Brinward Properties, Ltd., 333 Rochester Road, Burham, near Aylesford, Kent.

Chelmsford, Essex.—B.C. recommended to prepare sketch layout plans for housing development at Watchouse Road estate.

Cheltenham, Glos.—B.C. recommended to approve, subject to conditions, plans for block of 20 flats on site of Westbourne House, Pittville Circus Road, for W. Bullingham, Ltd., 138 Hewlett Road; 75 dwellings, roads and sewers, at Arle Gardens, Arle Road, for Dare (Stratford), Ltd., 8 Union Street, Stratford-upon-Avon.

Chipping Norton, Oxon.—B.C. recommended to approve in principle plans for the erection of a three-storey block of 18 flats at Burford Road.

Dalkeith, Midlothian.—Dean of Guild Court have approved plans for 61 houses and shops at Shadepark, for B.C. Estimated cost £100,000.

Dewsbury, Yorks.—Borough architect to be requested to submit, in due course, layout plans for the erection of two-storey blocks of one-bedroom flats on small housing sites at Lees Hall Road, Overthorpe Avenue, Field Lane (No. 3), Slaithwaite Road and Myrtle Road, and on sites of the temporary prefabricated bungalows at Walnut Lane and Lee es ate.

B.C. recommended to approve, in principle, the erection of old people's bungalows in Staincliffe Road. Layout plan is to be prepared.

B.C. planning permission granted to Haywood and Peirson, Ltd., 28 Bennett Lane, for erection of 20 semi-detached houses at Chidswell Lane.

Dukinfield, Ches.—B.C. recommended to request Homeville Co., Ltd., 12 Crauford Rise, Maidenhead, Berks., to prepare plans and specifications for the erection of six houses.

Glasgow.—Boswell, Mitchell and Johnston, 256 West George Street, Glasgow, are the architects for a proposed 11-storey block of

42 luxury flats on a site at the junction of Clevedon Drive and Clevedon Road, for Cophall Holdings, Ltd., 3 Red Place, London, W.1.

Gosforth, Northumb.—Tenders are to be obtained by the U.D.C. for the erection of six houses at Kenton Road. A scheme is also being considered for the erection of 37 dwellings at Aln Crescent.

Great Yarmouth, Norfolk.—B.C. recommended to apply for sanction to borrow £4,500 for improvements to pre-war miscellaneous properties.

Hereford.—City Council recommended to approve in principle revised layout plan for the development of Prospect Farm and Whitehouse Farm for housing purposes.

Kendal, Westmor.—B.C. have appointed W. Johnston, quantity surveyor, Castle Street, Carlisle, to prepare bills of quantities for the erection of further dwellings on Sandylands estate extension.

Keswick, Cumb.—The National Trust, Queen Anne's Gate, London, S.W.1, are seeking planning permission to erect 15 houses near Crosthwaite Vicarage.

Leyton, Essex.—B.C. recommended to invite tenders from John Laing and Son, Ltd., G. Wimpey and Co., Ltd., and Bates, Ltd., for the erection of three 17-storey blocks of flats at Oliver Close redevelopment.

Loughborough, Leics.—B.C. recommended to prepare plan for a pair of semi-detached houses on the aerodrome site.

Millom, Cumb.—R.D.C. have approved, subject to conditions, outline application for the erection of approximately 80 houses off Dumb Lane, for North Lancashire and South Cumberland Development Co. Ltd., St. George's Terrace, Millom.

Morley, Yorks.—B.C. recommended to approve plans for residential development for 42 dwellings, Main Street/Moor Knoll Lane, East Ardsley, for H. Waterhouse and Sons, East Ardsley.

Norton-Radstock, Som.—U.D.C. have approved layout plans for the erection of a further eight houses, eight bungalows, and 16 flats at Hillside Avenue estate, Midsomer Norton. Estimated cost £44,400.

Oxford.—City Council recommended to approve, subject to conditions, outline plans for the erection of 18 old peoples' flats, and 76 flats, with 62 garages for private cars and 32 parking spaces as Temple Road/Salegate Lane, for Silk's Estate's Development, Ltd., 101 Cowley Road, Oxford.

Peterborough.—City Council recommended to submit to County Planning Committee for approval layout plans for 80 two-storey terraced houses at Bluebell III estate.

Ramsgate, Kent.—B.C. recommended to approve, subject to conditions, outline plans for the demolition of existing terrace and erection of three blocks, comprising 25 maisonnettes, eight houses, 48 flats, four penthouse flats, one caretaker's flat, management offices, shop and two boutiques, together with parking space for 24 cars and an underground garage for 66 cars, at sites 3-15 Truro Road, bounded by Victoria Parade, Albert Road, Truro Road and Albion Road, for Westmont, Ltd., c/o Allister MacDonald and Partners, architects, 10-13 Bedford Street, London, W.C.2.

Reading, Berks.—B.C. recommended to approve, subject to conditions, plans for the erection of 21 flats on land off New Lane Hill for McManus and Co., Ltd., Woodlands Road, Oxford.

Rugby, War.—B.C. recommended to approve plans for 13 detached houses and garages at Beech Drive, Bilton, for C. T. Adams (Builders), Ltd., 69 Temple Street.

Salford, Lancs.—City Council have approved the erection of a block of six three-storey Terracourt houses and garages at 228 Moor Lane, Kersall, for S. Cookson and Son, 42 Hardman Street, Manchester, 3.

Scunthorpe, Lincs.—B.C. recommended to grant planning permission for the erection of 39 flats in three-storey blocks with 36 garages at Cottage Beck Road for G. Chessman, Ltd., Scotter Road.

Seaton Valley, Northumb.—U.D.C. is to demolish a hostel at Cramlington which accommodates 105 families and new dwellings will be erected.

Sheffield.—City Council recommended to approve the development of an in-filling site at the junction of Bowden Wood Crescent and Prince of Wales Road, by the erection of 40 dwellings and a number of garages; G. Wimpey and Co., Ltd., recommended to submit a scheme for the development for housing and ancillary purposes of the lands at Stannington.

Southwold, Suffolk.—B.C. recommended to approve layout plan, and subject to Ministry approval, invite tenders for the erection of six houses in pairs each with garages attached at Sole Bay housing estate.

Spenborough, Yorks.—B.C. have granted subject to conditions, permission for the erection of 56 pairs of semi-detached bungalows on land off Child Lane and Roberttown Lane, Roberttown, and for erection of 13 pairs semi-detached houses in Westgate, Cleckheaton.

Standish-with-Langtree, Lancs.—U.D.C. to instruct J. C. Prestwich and Sons, architects, Bradshaw Gate Chambers, Leigh, to prepare a scheme for the erection of 24 two-bedroom houses on the Larkhill estate and that a suitable site be allocated on the estate for two shops; Housing Committee have approved plans for the erection of 22 two-bedroom houses and 10 one-bedroom bungalows on the Wigan Lower Road site.

Stockton-on-Tees, Dur.—B.C. recommended to approve an outline application by Appleton and Hall, 134 High Street, for housing developments on about 100 acres of land near Junction Road and Darlington Lane, Norton.

Teitfild, Cards.—R.D.C. to prepare plans for the re-development of the prefabricated bungalow estate at Penyparc by the erection of two lanes of houses and 20 to 25 garages.

Walton and Weybridge, Surrey.—U.D.C. to purchase land at Esher Road for the erection of old people's accommodation.

Wigan, Lancs.—R.D.C. have approved plans for the erection of 44 bungalows at The Common, Parbold, for Howard Estates, Ltd., 9 Queens Road, Southport.

Winchester, Hants.—C.C. recommended to approve the erection of a pair of cottages at the County Farm Institute, Sparesholt. Estimated cost £5,050.

Wortley, Yorks.—R.D.C. propose more housing development at Stannington Road, Stannington.

PLAYING FIELDS, PARKS, ETC.

Bridlington, Yorks.—East Riding C.C. to apply for sanction to borrow £2,300 for preparation of a new rugby pitch at Bridlington School, including the felling of trees, levelling of the ground, etc.

Cheltenham, Glos.—B.C. recommended to prepare scheme for layout of part of St. Mark's recreation ground.

Morecambe, Lancs.—B.C. to apply for sanction to borrow £9,531 for Phase 3 of the Heysham Village improvement scheme.

Morley, Yorks.—B.C. recommended to apply for sanction to borrow £9,200 for development of a central nursery in Dartmouth Park.

Southampton.—Hampshire C.C. recommended to approve the preparation of playing fields at Sarisbury County Secondary School. Estimated cost £2,535.

RIVER AND FLOOD PREVENTION WORKS

Devon.—River Board have approved in principle scheme for flood prevention works for the Village of Brendon. Estimated cost £39,400; are to submit to Ministry for approval plans for flood protection works for the John Heathcoat, Ltd., factory at Tiverton, £25,000.

Southport, Lancs.—Ministry have refused loan sanction for a £75,000 extension scheme for Marine Lake.

ROADS, BRIDGES AND SITE WORKS

Barnet, Herts.—U.D.C. recommended to approve scheme for the provision of additional car parking facilities at Barnet Playing Fields. Estimated cost £2,700.

Bath, Som.—City Council have approved plan to provide a new bridge across the River Avon between the Old Bridge and the temporary Wessex Bridge, and to the construction of a large traffic island involving alterations to the railway arches built by Brunel. Estimated cost £200,000.

Bath, Som.—City Council are to submit to Ministry, for approval, plans for the construction of a new bridge between the existing old bridge and the new Wessex Bridge across the River Avon. Estimated cost £70,000.

Bedfordshire.—C.C. have approved scheme for the improvement of the A.5120 between the M.1 and Westoning. Estimated cost £50,000.

Bexley, Kent.—B.C. recommended to appoint John Mason and Partner, 53 Victoria Street, London, S.W.1, as consulting engineers for the construction of pedestrian tunnels under the Bellegrove Road railway bridge.

Birkenhead, Ches.—B.C. to submit to M.T. for inclusion in the current financial year, scheme for improvement at the Chester Street and Waterloo Place junction. Estimated cost £16,125.

Bridlington, Yorks.—East Riding C.C. recommended to approve the construction of a footpath on the west side of the Bridlington-to-Filey road between its junction with the road leading to Hunmanby Gap and the southern entrance to Butlin's Holiday Camp. Estimated cost £950.

C.C. recommended to ask the county surveyor to prepare schemes for the improvement

of the section of the Bridlington-to-Scarborough road from a point near the Dotterel Inn, Reighton, to its junction with Mill Lane, and from Mill Hill into Filey.

Colchester, Essex.—B.C. have approved scheme for the widening of St. Johns Road. Estimated cost £11,435.

Doncaster, Yorks.—B.C. recommended to apply for sanction to borrow £58,500 for outer ring road between Thorne Road and Armthorpe Road.

Dorking, Surrey.—C.C. have approved for grant aid, scheme for the improvement of Milton Heath/Milton Bridge on the A.25 at Westcott, for U.D.C.

Co. Highways and Bridges Committee have approved, in principle, U.D.C.'s proposals for the widening of Chalkpit Lane railway bridge.

Great Yarmouth, Norfolk.—B.C. recommended to approve scheme for the first stage of the construction of roads and sewers etc., at Priory Street/Bull's Lane clearance area. Estimated cost £3,200.

Hereford.—City Council recommended to approve plans for making-up of Moor Farm Lane.

Hertfordshire.—M.T. have approved a scheme for the construction of the Eastwick by-pass on the A.414 road.

Kent.—M.T. propose the widening of the A.20 road, improvement of the visibility between Sellindge Church and the Duke's Head public house and the improvement of the S bend, at Newington. Estimated cost £30,000.

Keynsham, Som.—U.D.C. have approved scheme for the construction of a rear access road to High Street, widening Rock Road and provision of a car park. Estimated cost £22,000.

Peterborough.—City Council recommended to approve scheme for repairing footpath of south side of Queens Walk. Estimated cost £1,200.

Rainford, Lancs.—U.D.C. have approved, in principle, to proceed with improvement of Old Lane, in stages. Estimated cost £5,000.

Reading, Berks.—B.C. recommended to prepare, for submission to M.T. for approval, detailed schemes for the reconstruction of Wokingham Road, £93,000; reconstruction of bridges in Bridge Street—£100,000; Berkeley Avenue reconstruction and widening from Coley Avenue—£26,000; and Whitley Wood Road (class III) improvement (final stage)—£50,000.

Scunthorpe, Lincs.—B.C. recommended to apply for sanction to borrow £3,150 for construction of roads and sewers at Brigg Road industrial estate.

Sheffield.—M.T. have approved a scheme for widening and realignment of Baslow Road, Totley Rise, between its junction with Marston Crescent and the railway bridge, for City Council. Estimated cost £50,893.

Sheffield.—City Engineer to be authorised to carry out improvements to the highway extending from Granville Road in a southerly direction to main entrance of Norfolk Park. Estimated cost £1,750; road improvements Abbey Land and Bocking Lane junction, construction of traffic roundabout, £9,000; Sheffield Parkway (on Beaumont Road North), construction of footbridge, £8,500; Sheffield Parkway (Bowden Housesteads), construction of footbridge, £8,500; Baslow Road, improvement of bend near Moor Edge brickworks, £6,600; improvements in Waingate and Haymarket, in conjunction with tramtrack abandonment works, involving the provision of dual carriageways in Waingate, the erection of barrier rails at the junction of Haymarket, Exchange Street, Waingate and Castle Street, and the experimental widening of the footpath in Haymarket, between Exchange Street and Commercial Street, and improvement of Borough Road, between Penistone Road and Park View Road, estimated cost £4,250.

Southport, Lancs.—B.C. recommended to apply for sanction to borrow £39,343 for development works at Staveley Road housing site extension No. 3, comprising the construction of sewers, extension of Sandbrook Road southwards to Meadow Lane, with cul-de-sac on the easterly and westerly sides of this extension, and the provision of street lighting. Tenders to be invited for the sewerage works.

Stourbridge, Wores.—B.C. recommended to approve plans for making-up of Valley Road; submit to C.C. and Divisional Road Engineer for approval schemes for improvement of Worcester Lane from Hagley Road to Redlake Road and Glasshouse Hill.

Taunton, Som.—B.C. recommended to submit to M.T. for grant aid, scheme for the widening of a further section of the Inner Relief Road. Estimated cost £85,000.

Northumberland.—C.C. propose the strengthening and widening of Hedgely Bridge near Morpeth. Estimated cost £35,000.

Weymouth, Dorset.—B.C. recommended to apply for sanction to borrow £5,000 for the surfacing of the Swannery Car Park.

Wolverhampton, Staffs.—B.C. have approved the construction of the second section of the inner ring road between Pool Street and Salop Street. Estimated cost £175,000.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Ashford, Kent.—U.D.C. hope, subject to Ministry approval, to invite tenders by about December for the construction of the sewage disposal works.

Basingstoke, Hants.—B.C. recommended to apply for sanction to borrow £50,000 for the proposed soil sewer, Loddon Valley.

Berkhamsted Herts.—D. Balfour and Sons, consulting engineers, 131 Victoria Street, London, S.W.1, have prepared outline plans for the construction of a sewerage scheme for Aldbury, Northchurch and Wigginton, for R.D.C. Estimated cost £165,000.

Canterbury, Kent.—Ministry have approved sewerage and sewage disposal scheme for Ashford Road and Tonford Lane, Thanington, for City Council. Tenders can now be invited.

City Council to submit to Ministry and C.C. for grant aid, the Chislet (Upstreet) sewerage and sewage disposal scheme. Estimated cost £47,600.

Carshalton, Surrey.—U.D.C. to proceed, subject to Ministry approval, with the drainage scheme to alleviate flooding at Sussex Road.

Chanctonbury, Sussex.—R.D.C. propose the construction of a relief sewer from Fryern Close, Storrington, to connect with sewers now being laid in the village. Estimated cost £2,000.

Chertsey, Surrey.—U.D.C. to prepare for submission to Ministry for approval, scheme for the construction of a 21in. relief sewer for the central Addlestone area. Estimated cost £40,000.

Dorking, Surrey.—U.D.C. have approved, in principle, scheme for the construction of a main surface water sewer from the junction of Chapel Lane and Burway Road West to the River Mole to alleviate flooding in the West-humble/Chapel Lane area.

Hayes and Harlington, Middx.—U.D.C. have approved a new surface water sewage scheme at Botwell. Estimated cost £52,500.

Ilkley, Yorks.—U.D.C. have approved scheme for alterations to the existing storm water tanks at Ilkley sewage disposal works. Estimated cost £1,370.

Lakes, Westmor.—U.D.C. recommended to approve proposed sewerage scheme for Grasmere. Estimated cost £56,000.

Lancashire.—River Board to prepare an outline scheme for the reclamation and drainage of 2,000 acres of Pilling and Cockerham marshes which lie between Fleetwood and Lancaster.

Ormskirk, Lancs.—U.D.C. to ask Ward Ashcroft and Parkman, consulting engineers, 38 The Temple, Dale Street, Liverpool 3, to prepare final scheme for Newburgh sewerage scheme.

Oxford.—Ministry has informed City Council that it is prepared to make an order for the construction of reservoir planned for Farmoor, on condition that the treatment works should be moved from the riverside to beside the road from Farmoor to the top of Cunmor Hill. Estimated cost £3m.

Rainford, Lancs.—U.D.C. have approved sewerage improvements at Rookery works and at the north end of the district, estimated cost £50,000 and £26,224 respectively; propose further scheme for the Crank area, bringing the sewerage from the existing works at Berringtons Lane to the Rookery works, at a cost of £42,065.

Rowley Regis, Staffs.—B.C. recommended to approve and submit to ministry for approval scheme for the construction of a stormwater sewer at Birch Crescent. Estimated cost £6,500.

Scunthorpe, Lincs.—B.C. recommended to apply for sanction to borrow £13,000 for the construction of the Dawes Lane relief sewer; submit to Ministry for preliminary observations outline design for extensions to sewage purification works, Ashby.

Southampton.—Wessex Regional Hospital Board recommended to include in capital programme scheme for new drainage system for villas at Tatchbury Mount Hospital.

Southport, Lancs.—B.C. recommended to apply for sanction to borrow £1,000 for sewer works to be carried out in Town Planning Road No. 23, and £199,700 for stage 1 of the Bank End sewage disposal works extension scheme.

Taunton, Som.—B.C. recommended to approve, in principle, scheme for the replacement of the sewer in Priory Bridge Road by a 48in. sewer. This will be laid from a manhole on the eastern side of the River Tone to the Lambrook depot. Estimated cost £52,000.

Torrington, Devon.—Ministry have approved plans for enlarging the sewage disposal works, for B.C. Tenders are to be invited.

Tunbridge Wells, Kent.—B.C. recommended to approve scheme to relieve flooding in the Culverden area, £12,723; provision of a soil sewer at Sandown Park, stage III, £22,000.

STREET LIGHTING

Colchester, Essex.—B.C. have approved scheme for improving the street lighting in the Dutch Quarter during 1961/62. Estimated cost £7,000.

Harrow, Middx.—B.C. are to improve the lighting in about 200 streets. Estimated cost £87,000.

Meltham, Yorks.—U.D.C. have applied for sanction to borrow £2,480 for street lighting conversion scheme.

Ripley, Surrey.—Parish Council have approved scheme for the installation of group A street lighting in the High Street.

Welwyn Garden City, Herts.—U.D.C. are to apply for sanction to borrow £8,700 for the second and final stage of improvements to street lighting in the town centre.

CONTRACTS

Full details of the Contracts marked * will be found in our Advertisement Columns.

BUILDING AND DECORATING (See also Housing Schemes)

Abercarn, Mon.—Alterations to 33 Railway Terrace, West End, Abercarn, to provide bathroom for U.D.C. Documents from Housing Engineer, Council Offices, Abercarn, Mon. Deposit £2 2s. Tenders by Sept. 4.

Acton, Middx.—Old Oak Common Lane improvement, for B.C., including the construction of a brick retaining wall of about 63 cu. yd. (13½ in. x 6 ft. 6 in. high. Documents from the Borough Engineer, Town Hall, Acton, W.3. Tenders by August 31.

Bacup, Lancs.—Painting of extension arms and brackets affixed to 94 street lighting standards in Booth Road and Todmorden Road for B.C. Documents from the Street Lighting Superintendent, Irwell Terrace Depot, Bacup. Tenders by Sept. 15.

Ballycastle, Antrim.—Alterations and repairs to house at 34 North Street, Ballycastle, including plumbing, electrical work, and painting, for Youth Hostel Association. Documents from Organising Secretary, Y.H.A.N.I., 28 Bedford Street, Belfast, 2. Tenders by Sept. 6.

Batley, Yorks.—Internal decoration of the Art Gallery at the Public Library, and for washing walls and decorating ceilings in part of the library buildings for B.C. Documents from Borough Engineer, West House, Hanover Street, Batley. Tenders by Aug. 31.

Bedfordshire.—Alterations and extension of existing hushed classroom at Mander College Demonstration Farm, Silsoe (approximate cost £2,600), for Co. E.C. Applications to the County Architect, Shire Hall, Bedford, by Aug. 28.

Bedfordshire.—Erection of brick garages at the undermentioned police houses for Standing Joint Committee. Separate tenders are required covering groups of houses as indicated: (Group 1) 22 and 22a Bletsoe, Great Barford and Wootton; (2) Coppe, Northill, Southill and Wrestlingworth; (3) Flitwick (Elmwood Crescent) and Ridgmont; (4) Caddington, Slip End and Sundon Park. Applications to the County Architect, Shire Hall, Bedford, by Aug. 31.

Belfast.—Following at Royal Victoria Hospital, for Management Committee: (a) Repair of ceiling—ward 22, R.V.H.; (b) asphaltting roof—wards 21/22, R.V.H.; (c) supplying/laying floor covering, main and side wards—R.B.H.S.C.; (d) electrical work to be carried out in medical staff common room—R.V.H. Documents from the Superintendent Engineer, Area Maintenance Department, Broadway. Tenders by August 29.

Berwick-upon-Tweed, Northumb.—Erection of a block of chalets at Spittal, for B.C. Documents from the Borough Surveyor, Municipal Buildings, Berwick-upon-Tweed. Deposit £2 2s. Tenders by September 11.

Blackwell, Notts.—External painting of 212 dwellings at Shirebrook and Langwith Junction, for R.D.C. Documents from the Engineer and Surveyor, 100 Chesterfield Road South, Mansfield. Deposit £1 1s. Tenders by August 30.

Bradford, Yorks.—Carrying-out the erection of a new cardiologic department at Bradford Royal Infirmary, for Leeds Regional Hospital Board. Applications to the Architect to the Board, Park Parade, Harrogate, by noon, August 29. Deposit £2 2s., cheques payable to the Board. Plans also seen at the office

of Samuel Jackson and Son, chartered architects, Ocean Chambers, Piccadilly, Bradford, 1. Tenders by September 21.

Cardiff.—Ambulance station—demolition of the existing single-storey building, and the building of a new two-storey structure in the Cardiff Castle grounds at Blackweir, for City Council. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by September 12.

Chorley, Lancs.—Pointing of a portion of the Council's offices, for U.D.C. Documents from the Surveyor, Council Offices, Gillibrand Street, Chorley. Tenders by September 11.

Coleraine, Londonderry.—Installation of baths, w.c.s and a water supply system and all necessary sewage works at the housing site at Castleroe for R.D.C. Tenders by Sept. 2.

Congleton, Ches.—Pointing of 15 houses on sites at Brereton and Twemlow, for R.D.C. Applications to the Engineer and Surveyor, Middlewich Road, Sandbach. Tenders by August 30.

Cosford, Suffolk.—Following works, for commencement on dates given, for R.D.C.—Improvements, including bathrooms and drainage facilities, at: 1-6 Church Road, Lindsey; 1-4 Rectory Road, Whatfield; 1-4 Flowton Road, Elmsett—mid-November, 1961; 1-6 Hadleigh Road, Elmsett—mid-December, 1961. Construction of sewage disposal works for 33 houses at: Hadleigh Road, Elmsett—mid-February, 1962. Documents from Engineer and Surveyor, 32 High Street, Hadleigh, near Ipswich.

Croydon, Surrey.—Multi-storey car park, for B.C. Tenders by November 8.

Ellesmere Port, Ches.—Contract 285, for B.C. Tenders by September 7.

Epsom and Ewell, Surrey.—Taking down and reinstating two sections of the boundary wall to Bourne Hall for B.C. Documents from the office of Colin Cobbett, borough engineer and surveyor, Town Hall, Epsom. Deposit £2 2s. Tenders by Sept. 4.

Fermanagh.—Supply and erection, on a prepared base, of structural steelwork for an old people's home at Coleshill, Enniskillen, for County Welfare Committee. Documents from H. A. Patton, architect, 29 Wellington Place, Belfast, 1. Deposit £10 10s., cheque payable to Secretary of the Committee. Tenders by September 1.

Glamorgan.—Following works for C.C.: (a) Magistrates' Court, Penarth—alterations and additions; (b) erection of a pair of police houses and office at Goytre, near Port Talbot. Documents in respect of work (a) from Penarth Police Station; in respect of work (b) from the Port Talbot Police Station; and in respect of both works at the County Police Architect's Department, County Police Headquarters, Bridgend. Deposit £2 2s. Tenders by Sept. 4.

Gloucestershire.—Chipping Campden Grammar School extensions, for C.C. The work will be in traditional construction, consisting of practical and administration blocks, assembly hall, gymnasium, covered play area and two-storey science and classroom blocks, having a total floor area of approximately 55,000 sq. ft. Applications to County Architect, Shire Hall, Gloucester, by August 28. Deposit £2 2s.

Grimby, Lincs.—Erection of a police box, together with paths, drainage and other ancillary works, in Bargate for B.C. Documents from the office of J. V. Oldfield, borough engineer and architect, Municipal Offices, Town Hall Square, Grimby. Deposit £2. Tenders by Sept. 4.

Haltemprice, Yorks.—Erection of front boundary walls, together with ancillary works, along Hallgate Cottingham, for U.D.C., including brickwork, wrought-iron fencing and gates, etc. Documents from the Engineer and Surveyor, Anlaby House, Anlaby. Deposit £1. Tenders by August 29.

Hampshire.—Health clinic, community centre and ambulance station, Leigh Park, Havant, second phase (superstructure work) of this contract, for C.C. Applications to the Clerk of the County Council, The Castle, Winchester, by September 5. Deposit £2 2s., cheque payable to C.C. Tenders by October 9.

Herefordshire.—Internal painting works at the County Hospital, Hereford, for Management Committee, to be carried out within a pre-determined time period. Documents from A. D. Edmunds, group secretary, Victoria House, Eign Street, Hereford. Tenders by Sept. 15.

Holyhead, Anglesey.—External painting of 166 houses on the Morawelon housing estate for U.D.C. Documents from Engineer and Surveyor, Town Hall, Holyhead. Tenders by Aug. 31.

Hull.—Erection and completion of a single-storey office building, Cottingham Road, Hull, for the Sailors' Children's Society. Documents from Fisher, Hollingsworth and Partners, architects, 23 Lowgate, Hull. Deposit £2 2s., cheque. Tenders by September 21.

Kesteven.—Builders' work in connection with the erection of two prefabricated offices at the County Offices, for C.C. Applications to the County Architect, County Offices, Sheaford, Lincs., by September 1. Tenders by September 26.

Kingston-upon-Thames, Surrey.—Erection of 12 lock-up garages and the provision of 23 parking bays at Cumberland House Flats, Kingston Hill, for B.C. Documents from the Borough Surveyor, Guildhall, Kingston-upon-Thames. Deposit £2 2s. Tenders by Aug. 31.

Kinver, Staffs.—Improvement works at Whittington Hall Farm, Kinver, for Upper Stour Valley Main Sewerage Board, consisting of concreting and covering fold yards, and repairs and alterations to cow sheds. Documents from the office of O. C. Rowe, the Board's engineer, 10c Hagley Road, Scourbridge, Worcs. Deposit £2 2s., payable to the Board. Tenders by September 11.

Leeds.—Beck Wall reconstruction at Firnley Street, for City Council. Reconstruction of approximately 143ft. of a reinforced concrete retaining wall and 9in. brickwork parapet wall, height 16ft. average. Documents from City Engineer's Office, Room 75, Civic Hall, Leeds, 1. Tenders by September 15.

Leeds.—Carrying-out alterations and extensions to the female patients occupational therapy accommodation at Meanwood Park Hospital, Leeds, for Regional Hospital Board. Applications to the Architect to the Board, Park Parade, Harrogate, by August 31. Deposit £2 2s., cheque payable to the Board. Tenders by September 21.

Leicester.—Erection of 15 garages at Hexall Road, Evington, for City Council. Documents from J. H. Lloyd Owen, city architect, Halford House, Charles Street, Leicester. Deposit £1. cheques payable to City Treasurer. Tenders by September 5.

Leicestershire.—Erection of science laboratories at Quorn Rawlins Grammar School, for C.C. Applications to County Architect, 123 London Road, Leicester, by September 5. Tenders by October 9.

Leicestershire.—Additional sanitary accommodation at Thrussington C.E. School, for C.C. Applications to County Architect, 123 London Road, Leicester, by August 28. Deposit £2 2s. Tenders by September 11.

Leyland, Lancs.—External painting of a total of 582 dwellings, situated principally on the Broadfield, Wade Hall, and Ryden Avenue estates, for U.D.C. The tender will be divided into 16 lots, but contractors may tender for one or more lots. Applications to the Engineer and Surveyor, Council Offices, Leyland. Deposit £2 2s. Tenders by September 1.

Lindsey.—Diversion of B.1398, for C.C. Labour only for stone walling and alteration of stone cottage at Brattleby and Cammeringham, north of Lincoln; 700 sq. yd. boundary walling to be built from foundation level; alteration to cottage consists of demolition of part of cottage and building of new gable end to remaining property. Documents from County Surveyor, County Offices, Lincoln. Tenders by September 4.

Liverpool.—Construction of extensions. Sudley Road C.P. School, for City Council. Documents from City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool 2. Deposit £2 2s., payable City Treasurer. Tenders by September 6.

Llanidloes, Monts.—Reconditioning of the Town Hall and ancillary buildings for B.C., including the construction of public conveniences, materials store and garage adjoining. Documents from D. Mervyn Edwards and Moreton, chartered architects, 5 Lower Brook Street, Oswestry. Deposit £3 3s., cheque payable to Council. Tenders by Sept. 2.

Lisburn, Antrim.—Painting of the gas-holders at the gas works, for U.D.C. Documents from the Town Clerk, Lisburn. Tenders by September 5.

Luton, Beds.—Following for B.C.: (a) Supply delivery of ironmongery; (b) supply and fixing of mild steel balustrading, to 70 old people's dwellings, Lewsey Farm estate. Documents from Borough Architect, Town Hall, Luton. Tenders by September 21.

Manchester.—Alterations to form sanitary improvements at Lily Lane School, Moston, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by August 31.

Newbury, Berks.—Improvements to swimming pool, for B.C., including the construction of new changing rooms, public conveniences, refreshment kiosk, caretaker's flat, new fencing, paving and other minor works in connection therewith. Documents from Sutton, Griffin and Sweetnam, architects, 87 Northbrook Street, Newbury. Tenders by August 31.

Newry, Down.—Design, supply, fabrication and erection of structural steelwork, etc., for a factory at Newry, for Ministry of Commerce. Tenders will not be considered which are not accompanied by steelwork designs. Docu-

ments from Room 28, Chichester House, 64 Chichester Street, Belfast, 1. Tenders by September 1.

Newry, Down.—Construction and completion of a factory at Warrenpoint Road, Newry, for the Ministry of Commerce. Documents from the Ministry of Commerce, Room 30B, Chichester House, 64 Chichester Street, Belfast, 1. Deposit £3. Plans also seen at local office of the Ministry of Labour and National Insurance, 10 John Mitchell Place, Newry. Tenders by September 8.

Peterborough.—Erection of 51 garages, Willow Avenue and Bluebell Avenue. Documents from C. Peter Clarke, town clerk, Town Hall, Peterborough. Deposit £2.

Peterborough.—External decorations to Nos. 4-42 St. James' Avenue for City Council. Applications to the City Engineer, Town Hall, Peterborough, by Sept. 1. Deposit £2. Tenders by Sept. 8.

Pewsey, Wilts.—Modernisation of the following houses, for R.D.C.: (a) 1 and 2 Milkhouse Water, Milton Lilbourne; (b) 1 to 4 Burbage Road, Milton Lilbourne. Documents from the Engineer and Surveyor, Council Offices, Pewsey. Tenders by September 1.

Portsmouth.—Modernisation of pre-war flats, Petersfield House (19 flats), Landport, for City Council. Applications to Director of Housing, 1 Clarence Parade, Southsea, by Sept. 1. Deposit £1 1s. It is a condition of tendering that the contractor shall at the date of tender have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous Jan. 1.

Portsmouth.—Additions and alterations at police headquarters Queen's Crescent for C.C. Applications to the City Architect, 1 Western Parade, Portsmouth, by August 28. Deposit £1.

Shoreham-by-Sea, Sussex.—Conversion of the major portion of the second floor of the Pevensey block, St. Wilfrid's, Ham Road, into staff accommodation for U.D.C. Documents from the Office of the Surveyor, St. Wilfrid's, Ham Road, Shoreham-by-Sea. Tenders by September 18.

Southborough, Kent.—Provision and erection of new dressing rooms on the Yew Tree Road Playing Fields, for U.D.C. Documents from the Surveyor, Council Offices, Southborough. Tenders by September 11.

Southend-on-Sea, Essex.—Performance of the work in connection with proposed stationery and games stores and works incidental thereto at Wentworth High School for Girls for B.C. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea. Tenders by Sept. 6.

Southend-on-Sea, Essex.—Garage for 40 vehicles, Central Cleansing Depot, for B.C., comprising the erection of a single-storey steel framed garage of about 11,000 super. ft., with brick and asbestos cladding and pitched asbestos roof, hard-standing, drainage and works incidental thereto. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea, by September 4, accompanied by details of similar works previously undertaken and names of architects from whom references may be obtained.

Southend-on-Sea, Essex.—Lavatory extensions, Bournemouth Park Road Junior School, for B.C., comprising the erection of three single-storey toilet blocks abutting existing buildings of a total floor area of about 600 super. ft. of brick construction and timber flat roofs, alterations to existing classrooms about 900 super. ft. to form lavatories and cloakroom, demolition of existing external lavatories and works incidental thereto. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea, by September 1, accompanied by details of similar works previously undertaken and names of architects from whom references may be obtained.

Staffordshire.—Alterations and additions to Wednesbury, Holyhead Road Divisional Police Station and Magistrates Court, for C.C., comprising: (a) Police station—general improvements, formation of kitchen and stores, provision of new toilets and alterations to existing formation of a new lounge and recreation room from existing decontamination room and new toilets; (b) magistrates' court—general improvements to accommodation, provision of new toilets and alterations to existing. Applications to T. H. Evans, clerk of the County Council, County Buildings, Stafford. Deposit £2 2s., cheques payable to C.C. Tenders by September 22.

Stanley, Yorks.—Fixing of 100 replacement fireplaces on various estates for U.D.C. Documents from D. Walker, Council Offices, Coach Road, Outwood, Wakefield. Tenders by Sept. 1.

Tavistock, Devon.—External painting of the following 174 houses for R.D.C.: Four at Meavy; 16, Walkhampton; 19, Buckland Monachorum; 29, Horrabridge; six, Lydford; eight, Peter Tavy; eight Chilton; 36, Lifford; two, Kelly; two, Lobhill; four, Stowford; 40,

Bere Alston. Contractors may tender for all or any single group or groups of houses. Documents from L. J. Shepherd, surveyor, The Council Offices, Kilworthy Hill, Tavistock. Tenders by Sept. 6.

Tynemouth.—Re-roofing work at the Swimming Pool for B.C. Documents from the Borough Surveyor, 16 Northumberland Square, North Shields. Deposit £1 1s. Tenders by Sept. 6.

Walsall, Staffs.—Drill and hose-drying tower Bloxwich fire station. Tenders are invited for the above project. Application to the Borough Engineer and Surveyor, Council House, Walsall. Deposit £2 2s. Tenders by September 4.

Weston-super-Mare, Som.—Supply and erection of 28 precast concrete garages on the Oldmixon estate for B.C. Applications to the Property Manager, Town Hall, Weston-super-Mare. Tenders by Aug. 31.

West Riding.—Forming of rural studies unit, etc., at Bentley High Street Secondary School, for C.C. Application to the Divisional Architect, Planet Road, Adwick-le-Street, near Doncaster. Tenders by September 19.

West Riding.—Providing laying and fitting hardboard and coverings to floors at Thornton View, Clayton, near Bradford, for C.C. Applications to the Divisional Architect, Flint Street, Huddersfield. Tenders by September 4.

Wokingham, Berks.—Erection of 22 garages in two blocks, together with short service road and concrete apron, for B.C. Documents from the Borough Surveyor, Town Hall, Wokingham. Tenders by September 11.

Worcestershire.—Proposed extensions at Kidderminster Girls' High School, for C.C. Applications to L. C. Lomas, county architect, 14 Castle Street, Worcester, by August 28, and where contractors applying have not previously carried out major works under the county architect, they are required to submit details of single contracts costing at least £85,000 which they have completed recently, together with the names of the architects responsible.

CLOTHING AND TEXTILES

Blackpool, Lancs.—Supply of overall clothing, for B.C. Documents from the Director of Public Cleansing, 3 Caunce Street, Blackpool. Tenders by September 11.

Wrexham, Denbighs.—Supply of 140 boiler suits, plain style, half belt, blue drill in various sizes ranging from 36in. to 50in., for R.D.C. Tenders in sealed envelopes endorsed "Protective Clothing," to Trevor L. Williams, clerk and solicitor, Imperial Buildings, Regent Street, Wrexham, by noon, August 30.

Wrexham, Denbighs.—Supply of boiler suits and overalls, for B.C. Documents from the Borough Engineer and Surveyor, The Guildhall, Wrexham. Tenders by September 9.

DEMOLITION

Caernarvon.—Complete dismantling of the pavilion at Caernarvon. The building (200ft. by 100ft.) is a timber-framed structure, clad with corrugated iron sheeting, and contains a large quantity of excellent timber and other salvageable materials, for B.C. Documents from the Borough Engineer and Surveyor, Swydddar Dref, High Street, Caernarvon. Tenders by September 16.

Ellesmere Port, Ches.—Demolition of the White House buildings, Whitby Road, for B.C. Documents from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port. Tenders by September 11.

Saltash, Corn.—Demolition of 26 and 27, Fore Street, contract 3, for B.C. Documents from A. de Barr, borough surveyor, Church House, Saltash. Deposit £2 2s. Tenders by August 31.

West Riding.—Demolition of shop and cottage property known as 10 and 12, 14 and 16, and 28 and 30 Bank Street, Mexborough, for C.C. Work includes the demolition of buildings, clearance of site and the salvage of materials which will be available for disposal by the contractor. Documents from the Assistant County Surveyor, West Riding County Council Area and Divisional Offices, Station Road, Doncaster. Deposit £1. Tenders by August 31.

Wood Green.—Demolition of 72 and 77-87, inclusive, Acacia Road, for B.C. Documents from the Borough Engineer, Town Hall, Wood Green, N.22. Tenders by September 22.

Woodstock, Oxon.—Demolition of a group of nine cottages at St. Andrew's Square, for B.C. Applications to Harry W. Smith and Son, chartered architects, 29 George Street, Oxford. Deposit £2 2s., cheque.

ELECTRICAL

Antrim.—Electrical heating installation at Health Clinic, Shaftesbury Park, Carrickfergus, for C.C. Documents from 475-477 Antrim Road, Belfast, 15. Deposit £3. Tenders by Aug. 30.

Cardiff.—Complete electrical installation in the proposed Leckwith Technical High School, Lawrenny Avenue, for City Council. Documents from W. S. Atkins and Partners, 6 Park Place, Cardiff. Deposit £2 2s. cheque payable to Corporation. Tenders by September 5.

Durham.—Following at standard police houses, for County Police Authority: Winterbottom Avenue, West Hartlepool, electrical installation; Sunderland Road, Horden, electrical installation. Applications to County Architects, South Street, Durham, by August 30.

East Riding.—Installation of electrical services at the proposed infant's school at Cottingham (Bacon Garth), for C.C. Applications to the County Architect, County Hall, Beverley. Tenders by September 1.

Lancashire.—Rewiring the electrical installation at Ashton-under-Lyne, Stamford, Boys' County Secondary School for C.C. Application to the County Architect, P.O. Box 26, County Hall, Preston, by Aug. 28.

Lisburn, Antrim.—Re-wiring of the complete lighting and heating installations at Presbyterian Church, Railway Street. Documents from William J. Ogle, consulting engineer, 63 Main Street, Bangor, Co. Down. Deposit £5 5s., cheques payable to Railway Street Presbyterian Church. Tenders by Aug. 31.

Llanidloes, Mont.—Electrical installation at the new community centre, for B.C. Documents from J. E. Thomas town clerk, Town Hall, Llanidloes. Tenders by September 2.

Sunderland, Dur.—Electrical installations to the following, for B.C. (a) Sunderland training college extensions; (b) Hylton Red House community centre. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by September 14.

Sunderland, Dur.—Electrical installation to 209 dwellings at Town End Farm estate, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by September 12.

Wem, Salop.—Installation of electricity to six houses (1-6 inclusive), Burnside, Prees, for R.D.C. Documents from C. H. Jeffery, surveyor, Council Offices, Wem. Tenders by Sept. 4.

Wigan, Lancs.—Complete wiring installations at the following for B.C.: One hundred and sixty-six dwellings, Giants Hall, Beech Hill housing estate; 43 dwellings, Laithwaite housing estate; three police houses, Warrington Road, Goose Green. Documents from the Borough Engineer, Municipal Buildings, Hewlett Street, Wigan. Deposit £1 1s., cheque payable to Corporation. Tenders by Sept. 6.

FENCING

Edinburgh.—The erection of chain link fencing in the following areas for City Council: (Group A) Milton Road; (B) Firhill, Oxbgangs and Colinton Mains; (C) Gracemount, Iona Street, Dalmeny Street and Pirnfield Grove. Written applications to City Architect, City Chambers, Edinburgh, 1, indicating groups applied for, by Aug. 28.

Ruislip Northwood, Middx.—Supply and erection of approximately 65 lin. yd. of 4ft. 6in. high and 200 lin. yd. of 6ft. high close boarded fencing, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Northwood. Tenders by September 13.

West Riding.—Provision and erection of wrought-iron railings at the Greenfield County School for C.C. Documents from A. Beardsell, 35 Kirkgate, Huddersfield. Tenders by Aug. 31.

GAS AND WATER SUPPLY

Aberystwyth, Cards.—Construction and/or reconstruction of rubble-stonework overflow channels, and incidental works, at Llyn Llygad-Rheidol, and for the construction of about 50 lin. yd. of spun-iron water main 8in. and 9in. in diameter, and incidental works, at Nant Llyn, for B.C. Documents from A. H. S. Waters and Partners, engineers, 25 Temple Row, Birmingham 2, or W. Philip Davies, town clerk, Town Hall, Aberystwyth. Deposit £3 3s. Tenders by September 1.

Brighton, Sussex.—Patcham Pumping Station: Manufacture, delivery, erection, testing and setting in operation equipment for remote and local automatic control of electrically driven submersible well and surface booster pumps for B.C. Documents from Chief Engineer, Water Department, 12 Bond Street, Brighton. Deposit £2 2s. Tenders by Oct. 2.

Calne and Chippenham, Wilts.—Norton and Pickwick water mains, for R.D.C. Deposit £2 2s. Tenders by September 16.

Chelmsford, Essex.—Water main renewals, for R.D.C. (1) South Hanningfield—Windmill Inn to The Elms; (2) Woodham Ferrers—between Leighams Road and Fen Road. Provision, laying and jointing of approximately the following: (1) 1,000 lin. yd. 4in. diameter asbestos-cement pressure pipes; (2) 3,170 lin. yd. 5in.

diameter asbestos-cement pressure pipes. Documents from the Engineer and Surveyor, Rural District Council Offices, New London Road, Chelmsford. Deposit £1 1s. each. Tenders by September 18.

Downpatrick, Down.—Northern area water scheme, contract 2, for R.D.C., including the laying of 4in. and 3in. diameter spun-iron water mains to a total length of approximately 15 miles. Documents from the offices of the Downpatrick Rural District Council, Quoile Road, Downpatrick. Deposit £3 3s. Tenders by September 11.

Dulverton, Som.—Re-laying of water main at Skilgate, for R.D.C. Deposit £1 1s. Tenders by September 12.

Dundee.—Supply of cast-iron pipes and special castings, for Water Department. Documents from the Engineer and Manager, Water Department, 1 Shore Terrace, Dundee. Tenders by August 30.

Dungannon, Tyrone.—Bawn-Carntee water scheme, for R.D.C., including: (a) The supplying and laying of approximately 8 miles of 4in. and 3in. diameter spun iron water mains; (b) the construction of a 25,000 gallon service reservoir at Drumfad; (c) the construction of a pumping station at Killeeshill. Documents from Rural District Council Offices, Dungannon. Deposit £3 3s. Tenders by September 7.

Glamorgan.—Construction of a reinforced concrete covered service reservoir of about two million gallons capacity on a site at Giffach-Fargoed. Glamorgan, for Rhymney Valley Water Board, including the laying of about three miles of water mains of 18in. 15in. 9in. and 6in. diameter, drainage and ancillary works. Documents from Maurice Nachsen, consulting engineer, 58 Victoria Street, Westminster, London, S.W.1. Deposit £5 5s. payable to the Board. Plans also seen at the office of the Board's Engineer and Manager, St. Martin's Road, Caerphilly, Glamorgan. Tenders by September 7.

Llanelli, Carmar.—Water main, Coedcae to Bynea, for B.C. and R.D.C. Deposit £2 2s. Tenders by September 2.

Mildenhall, Suffolk.—Construction of two boreholes, testing and other incidental works at Victoria Camp, in the parish of Eriswell, for R.D.C. The boreholes, which will be lined with 24in. diameter steel tubes, will be about 120ft. deep, and tested simultaneously to 40,000 gallons per hour from each bore. Applications to F. W. Sanders, engineer, Council Offices, King Street, Mildenhall, by August 26.

North Walsham, Norfolk.—Extension of water mains—Cromer Road and housing site off Bacton Road, for U.D.C., including the provision and laying of approximately 520yd. of three inch cast-iron water main together with ancillary works. Documents from the Surveyor, Council Offices, New Road, North Walsham. Deposit £1. Tenders by August 29.

Stockport, Ches.—Construction of control house and Wellhead Chambers contract N, for Corporation Waterworks. Deposit £5 5s. Tenders by September 5.

Taunton, Som.—Laying of approximately 5,550 lin. yd. of 6in. and 4in. diameter spun-iron water mains, and all ancillary works, at West Hatch, near Taunton, for R.D.C. Applications to Harvey, McGill and Hayes, civil engineers, 8 Richmond Road, Exeter, in the case of contractors who have not previously carried out work for the Council or under the direction of the Engineers, particulars of similar work executed, and the names and addresses of the Engineers concerned must be submitted. Deposit £5 5s. cheque payable to R.D.C. Tenders by September 13.

Theale, Berks.—Four-inch water main—Blossom Square to North Street, contract 32, for Thames Valley Water Board, comprising:—(a) Laying and jointing approximately 1,265yd. of 4in. spun-iron water mains; (b) other appurtenant works, e.g., fixing specials, sluice valves, hydrants, etc. Documents from the Office of the Engineer and Manager, 16/20 The Forbury, Reading. Deposit £3 3s. payable to the Board. Tenders by September 4.

Thurso, Caithness.—Laying and jointing of approximately 400yd. of 6in. diameter, 670yd. of 4in. diameter and 460yd. of 3in. diameter iron water mains and associated work, for B.C. Documents from Gilbert Thomson and Son, consulting engineers, 164 Bath Street, Glasgow C.2. Deposit £2 2s. cheque. Tenders by September 5.

HEATING AND VENTILATING

Durham.—Heating installation to workshop extension at Framwellgate Moor central repair depot, for C.C. Applications to the County Architect, South Street, Durham. Tenders by September 4.

Edinburgh.—Conversion to burn smokeless fuel of existing fireplaces in 661 houses within the Sighthill No. 4 area for City Council. Written applications to City Architect, City Chambers, Edinburgh, 1, by Aug. 28.

Manchester.—The supply, delivery and erection of a low-pressure hot-water heating installation in home, 11 Langho Colony, Blackburn, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by September 5.

Melton and Belvoir, Leics.—Installation of hot water systems in pre-war houses, situated in the following villages for R.D.C.: (Contract 1) Harby, 16; (2) Hose, 12; (3) Holwell (eight); (4) Nether Broughton, four; (5) Plungar, seven; (6) Somerby, seven. Applications to the Engineer and Surveyor, Warwick Lodge, Dalby Road, Melton Mowbray. Tenders by Sept. 2.

Northern Ireland.—Supply, delivery and erection at Coolkeeragh power station, Londonderry, of low pressure pipework and valves, for Electricity Board. Documents from Kennedy and Donkin, consulting engineers, 64 Royal Exchange, Manchester 2. Deposit £5 5s. cheque payable to the Board. Tenders by October 16.

HOUSING SCHEMES

Aylesbury, Bucks.—Following dwellings, for R.D.C.: 18 bungalows and 10 houses at Warmstone estate, Waddesdon. Documents from T. J. Ridley, of Raymond White and Ridley, chartered architects, 4 Temple Square, Aylesbury. Deposit £3 payable to R.D.C. Tenders by September 19.

Basildon, Essex.—Fifty-six three-bedroom maisonnettes in four-storey blocks at Victoria Road, Laindon, for U.D.C. Applications to Engineer and Surveyor, 88 Town Square, Basildon, by September 1. Deposit £2 2s.

Battle, Sussex.—Eight bungalows at Oakhill Drive, Brede, for R.D.C. Documents from the office of the Housing Manager, The Watch Oak, Battle. Deposit £2 2s. Tenders by Sept. 11.

Blyth, Northumb.—Housing scheme 41—Kitty Brewster Road twenty-two, two and three bedroomed houses on the above site, for B.C. Documents from the Borough Engineer, Municipal Buildings, Seaforth Street, Blyth. Tenders by September 18.

Buckhaven and Methill, Fifies.—Following trades in connection with 38 houses at Auld Toll Bar site, for B.C.: Excavator and brickwork; carpenter and joiner work; roof-tiler and roughcast work; plumber; plaster; glazier; electrical; painter; fencing. Application to K. Ferguson town clerk, Municipal Buildings, Buckhaven, by August 26.

Canvey Island, Essex.—Twenty houses, 15 garages, together with ancillary site works, on the Tilbury Road site contract 50, for U.D.C. Documents from the Engineer and Surveyor's Department, Council Offices, Long Road, Canvey Island. Tenders by September 8.

Carlow, Eire.—Twenty-nine rural cottages in various parts, for C.C. Documents from the County Secretary Athy Road, Carlow. Deposit £10 10s. Tenders by September 4.

Esher, Surrey.—Forty-eight dwellings, complete with garages, Littleheath Farm estate, Oxshott, contract 295, for U.D.C., comprising 22 pairs of two-storey three-bedroom houses and one two-storey block of four two-bedroom flats, all with garages attached or adjacent. Documents from Engineer and Surveyor and Planning Officer, Council Offices, Esher. Deposit £2 2s. Tenders by September 11.

Fifehire.—Following for C.C.: Ten traditional houses at Balmullo fourth development; 13 traditional houses at Blairhall fourth development; 22 traditional houses at Kinglassie 16th development; site preparation at Balmullo fourth development; site preparation at Kinglassie 16th development. Applications to County Clerk, County Buildings, Cupar, by Aug. 26.

Frimley and Camberley, Surrey.—Overspill housing scheme, for U.D.C.—132 dwellings (traditional type) on Old Dean Common estate, Camberley. Documents from Close and Morton, 20-22 High Street, Camberley, by August 29. Tenders by October 17.

Halesowen, Worcs.—Block of two traditional-type three-bedroom houses in Leasowes Lane, The Leasowes, for B.C. Applications to the Borough Engineer and Surveyor, Council House, Halesowen, by August 26 noon. Deposit £2 2s.

Hamilton, Lanarks.—Redevelopment area Bent Road/Glebe Street, 35 flats and cottages with 28 lock-up garages, for B.C. Applications to Burgh Architect, 56 Brandon Street, Hamilton, by August 26. Deposit £2.

Havant and Waterloo, Hants.—Block of eight flats and four houses, together with drainage and external works, at Forest End, Waterloo, for U.D.C. Documents from the offices of the Engineer and Surveyor, 1 Park Road North, Havant. Tenders by September 5.

Hawick, Roxburgh.—Burnfoot and Burnhead housing scheme, for B.C., including 18 blocks (40 houses in all) on gap sites. Documents from the office of the Burgh Surveyor, Hawick. Plans also seen at the office of John A. W. Grant architects, 36 Melville Street, Edinburgh. Tenders by September 13.

Keighley, Yorks.—Sixteen one-bedroom flats in blocks of four, St. John's Road, Utley, for B.C. Applications to the Borough Architect, College Street, Keighley. Deposit £2. Tenders by September 11.

***Kingston-upon-Thames, Surrey.**—Acre road redevelopment, for B.C. Apply before August 31.

Llanelli, Carmarthen.—Sixty-six three bedroom houses in pairs, 8 one bedroom bungalows and 2 shops on the Llwynwhilwg site, for B.C. Applications to R. J. Birchall, borough architect, 5 Goring Road, Llanelli, by September 15. Deposit £2 2s. The successful tenderer will be invited to negotiate a tender for the subsequent development of the site comprising approximately a further 200 dwellings, documents for which will be ready in December 1961 with an anticipated commencing date of April 1962.

Louth, Lincs.—Twenty self-contained flats, together with warden's flat and community section and utility block adjoining, and with ancillary works, to be let as one contract for B.C. Documents from Wm. Saunders and Partners, architects, 57 Ugate, Louth. Deposit £2 2s. Tenders by Sept. 4.

Mansfield, Notts.—Ravensdale housing estate, contract 25A—10 one-bedroom traditional bungalows, for B.C. Documents from E. T. Crowe, borough engineer and surveyor, Carr Bank, Mansfield. Deposit £2 2s., payable to B.C. Tenders by September 20.

Pontypool, Mon.—Trevethin neighbourhood unit, phase two, scheme G. 124 traditional houses, for U.D.C. Applications to the Architect, Council Offices, Pontypool, Pontypool. Deposit £2 2s. Tenders by September 18.

Redditch, Worcs.—Twelve single storey old peoples dwellings in High Street, Astwood Bank, near Redditch, also for the construction of 2,250 sq. yd. approximately of reinforced concrete roadway and main sewers, for U.D.C. Written applications to R. A. Noonan, engineer and surveyor, Old Crest, South Street, Redditch. Deposit £2 2s. Tenders by September 14.

Southport, Lancs.—Two aged persons' dwellings in traditional brick construction, on the Grantham Close housing site, Birkdale, for B.C. Documents from the Borough Architect and Town Planning Officer's Department, 99/105 Lord Street, Southport. Deposit £2 2s. Tenders by September 15.

Whitby, Yorks.—Proposed erection of 18 dwellings near Spital Bridge, for U.D.C. Applications to J. S. Houghton architect, 9 Skinner Street, Whitby, by September 1. Deposit £2 2s. Tenders by October 6.

MATERIALS AND SUPPLIES

Crewe, Ches.—Supply of the following materials during the period January 1—December 31 1962, for B.C.: Spades, shovels, buckets, brushes, etc.; soaps and cleaning materials, including mops, cloths and dusters; concrete paving flags; granite chippings, tarmacadam; water fittings, sanitary goods, castings; grate parts; paints and distempers, etc.; electric lamps, conduit, switch and fuse gear; electric accessories. Applications to the Borough Engineer and Surveyor, Municipal Buildings, Crewe, by September 15.

Hillsborough, Down.—Supply of kitchen sink and cupboard units for 14 houses, Ravanet, 16 houses, Dromara, for R.D.C. Documents from William Barklie Maxwell, architect, 5 University Terrace, Belfast 7. Tenders by September 11.

Holywood, Co. Down.—Supply of 125 mild steel food waste containers complying with B.S. 1577, 1949, for U.D.C. Tenders shall state the period required to complete delivery. The acceptance of a tender will be subject to the replacement of any containers which, within six months from completion of delivery, become or are found to be defective through faulty workmanship or non-compliance with the B.S. Tenders, enclosed in plain sealed envelopes endorsed "Tender for food waste containers," and bearing no name or mark indicating the sender, to R. B. Stevens, clerk to the Council, Council Offices, Sullivan Place, Holywood, Co. Down, by noon, Sept. 4.

Northwich, Ches.—Supply of 500 dustbins complete with lids of 3½ cu. ft. capacity; mild steel plain tapered or corrugated dustbins and covers; 24in. by 18in. by 16in. to B.S.S. 792/1947 or of equal specification, galvanised after manufacture, embossed "N.U.D.C.61." The bottom rims to be riveted. The dustbins will be required to be delivered to the Health Depot, Tabley Street, Northwich, as and when required, the price quoted to be firm for 12 months. Tenders, in plain sealed envelopes clearly endorsed "Quotations for Dustbins," but not indicating the sender, to the Chief Public Health Inspector, Northwich U.D.C., The Council House, Northwich, by Aug. 29.

Stoke-on-Trent, Staffs.—Supply of approximately 100yd. of hose of various dimensions, together with accessories, to be used with mobile sewage pumps, for City Council. Documents from the City Surveyor, Town Hall, Stoke-on-Trent. Tenders by August 31.

Wembley, Middx.—Weekly collection and disposal of boiler ashes from various non-domestic premises within the borough, during the period October 1, 1961, to May 31, 1962, for B.C. The approximate output of ashes from these premises during the period is 48 tons per week. Documents from the offices of the Director of Public Cleansing, Alperton Lane, Wembley. Tenders by September 2.

MISCELLANEOUS

***Herefordshire.**—Installation radio relay system, for Hospital Management Committee. Tenders by September 13.

PLANT AND MECHANICAL TRANSPORT

Batley, Yorks.—Supply for B.C. of one Wilson model PRB 16in. combined surfacing and thickening planer in part exchange for one Wilson 12in. combined surfacing and thickening planer, year of manufacture 1934. Documents from the Borough Engineer, West House, Hanover Street, Batley. Tenders by Aug. 30.

Bideford, Devon.—Supply and delivery of a Track-Marshall refuse control diesel crawler tractor, for B.C. Documents from H. J. Denne, borough surveyor, Municipal Buildings, Bideford. Tenders by September 1.

Durham.—Highways laboratory equipment, for C.C., including the supply and installation of one new 250-ton compression machine, taking in part exchange an existing compression machine which is at present in use at the Highways Laboratory, Elvet Waterside, Durham. The successful tenderer will be required to enter into a contract which will provide for dismantling the existing machine and removing it from the site, and supplying and installing the new machine. Documents from the County Surveyor, Aykley Heads, Durham, who will afford the necessary facilities for inspecting the existing equipment. Tenders by August 30.

***Flintshire.**—Supply of plant, for C.C. Tenders by September 18.

Hastings, Sussex.—Supply and maintenance of one S. and D. Pakamatic refuse collection vehicle, for B.C. Documents from the Borough Surveyor, 37 Wellington Square, Hastings. Tenders by September 25.

***Nottinghamshire.**—Supply of plant, for C.C. Tenders by September 22.

Twickenham, Middx.—Supply of all or any of the following, for B.C. One Karrier 2-ton highways tipper; one Thames Trader 3-ton tipper; one Bedford 10/12cwt. van; one Thames 10/12cwt. van; one Thames 10/12cwt. van; one Triumph 200 c.c. motorcycle; 12 street orderly trucks; one high-pressure steam cleaner; two Greens 30in. verge cutters; two 24in. and two 30in. Dennis motor mowers; and one Allen universal motor scythe. Documents from the Borough Engineer, Municipal Offices. Tenders by September 13.

PLANT AND MECHANICAL TRANSPORT

***Brighouse, Yorks.**—Provision of dust extraction equipment, for B.C. Tenders by September 9.

East Retford, Notts.—Supply and delivery of 16/18 cu. yd. capacity diesel engine fere and aft tipping type of refuse collection vehicle, for B.C. Documents from the Borough Surveyor, Municipal Offices, Retford. Tenders by September 8.

***Manchester.**—Supply of a 4-ton medium wheel base tipping wagon, for City Council. Documents from Director of Public Cleansing, Town Hall, Manchester 2. Tenders by September 11.

***Staffordshire.**—Supply of trailer tool boxes, for C.C. Tenders by September 15.

PLAYING FIELDS, PARKS, ETC.

Bradford, Yorks.—Draining of Bingley Road (east) recreation ground, for B.C., containing an approximate area of 5 acres. This work consists of sports field drainage to a reasonable level surface. Documents from the Parks Superintendent 2/2a Howard Street, Bradford 5. Tenders by August 30.

Cheshire.—Approved list from whom tenders can be obtained for the supply of fertiliser. The list of contractors, when prepared, will operate until 1st June, 1964, and accepted tenders will apply for a six-month period. Applications to John G. Kellett, director of education, County Hall, Chester, by August 31.

Cheshire.—Preparation and layout of school playing fields and surrounds and construction of hard tennis courts, for Co. E.C.: Cheadle Orishmere County Primary School, layout of playing fields and surrounds—approximately two acres; Handforth Spath Lane County Primary School, layout of playing fields and surrounds—approximately two acres; Stockton Heath Cobbs Quarry County Primary School, layout of playing fields and surrounds—approximately two acres; Marple Hall Grammar School, construction of three hard tennis

courts. Documents from John G. Kellett, director of education, County Hall, Chester. Deposit £3 3s. each. Tenders by September 8.

***Enfield, Middx.**—Laying out of open spaces, for B.C. Deposit £2. Tenders by September 11.

Staffordshire.—Supply of strong, well-rooted, one-year-old Bush Floribunda roses, during the winter period, 1961-62, for Co. E.C. Documents from the Director of Education (P.F.), County Education Office, Stafford. Tenders by September 11.

***Wrexham, Denbighs.**—Rhosddu burial ground—conversion into gardens, for B.C. Deposit £2 2s. Tenders by September 11.

RIVER AND FLOOD PREVENTION WORKS

Brough, Yorks.—Construction of bank protection works on the north bank of the River Humber, near Brough, for Hull and East Yorkshire River Board. The works include a longitudinal half-tide training wall and a gabion wall and platform, requiring some 150,000 tons of chalk and 28,000 tons of slag. Documents from W. F. Gilbert, engineer and clerk, 37 North Bar Within Beverley, E. Yorks. Deposit £2. Tenders by September 11.

Cheshire.—Rivers Birket and Fender improvement scheme, Wirral, for River Board. Execution of following works on the Moreton-Greasby section of the scheme: Widening of existing reinforced concrete flume and replacement of accommodation bridge at Moreton, Wallasey; suspended sewer crossing at Saughall Massie, Birkenhead; reinforced concrete box culvert and flume at Upton, Birkenhead. Applications to the Engineer to the Board, 54 Hough Green, Chester. Deposit £3 3s. Tenders by September 7.

East Riding.—Construction of bank protection works on the north bank of the River Humber near Brough, for Hull and East Yorkshire River Board. The works include a longitudinal half-tide training wall and a gabion wall and platform, requiring some 150,000 tons of chalk and 28,000 tons of slag. Documents from W. F. Gilbert, engineer and clerk, 37 North Bar Within, Beverley, E. Yorkshire. Deposit £2. Tenders by September 11.

***London.**—Contract for general works and repairs 1962/65, for C.C. Applications to be returned by September 29.

ROADS, BRIDGES AND SITE WORKS

Baldon, Yorks.—Making-up of White-lands Road, for U.D.C. Documents from the Surveyor, Town Hall, Baldon. Tenders by Sept. 4.

Bath.—Construction of bases for 20 garages (in three blocks), together with drainage and ancillary works at Twerton estate for City Council. Applications to the City Planning Officer and Architect, 7 North Parade Buildings, Bath, by Aug. 26.

***Bedfordshire.**—Widening etc., Church Street, Dunstable, for C.C. Deposit £2. Tenders by September 15.

***Bedfordshire.**—Widening Amphil to Toddington Road, for C.C. Deposit £2. Tenders by September 15.

Berkshire.—A.420 improvement at Botley for C.C. Work comprises the demolition of property, drainage, carriageway foundation and surfacing footpath and fencing work. Documents from County Surveyor, Shire Hall, Reading. Deposit £2, payable to C.C.

Birmingham.—Supplying, laying and maintaining approximately 3,800 sq. yd. of bituminous macadam wearing course and approximately 340 tons of graded tarred macadam base course at Erdington Cottage Homes, Erdington, and Shenley Fields Homes, Northfield, for City Council. Documents from the Office of Sir Herbert J. Manzoni, city engineer and surveyor, Baskerville House, Civic Centre, Birmingham, 1. Deposit £2 2s. cheque. Tenders by August 30.

Blaby, Leics.—Construction of roads and sewers, at the following sites for R.D.C.: The Keep, Kirby Muxloe, contract 35; Stamford Close, Glenfield, 36; Oak Farm estate, Blaby, 37. Documents from F. W. James, engineer and surveyor, Council Offices, Narborough, Leics. Tenders by September 11.

Braintree and Bocking, Essex.—Resurfacing of approximately 14,000 sq. yd. of district roads, for U.D.C. Documents from the Surveyor, Town Hall, Braintree. Deposit £2 2s. Tenders by September 15.

Breconshire.—Supply or supply and laying of hot rolled asphalt to: (a) Llanfaes, Brecon (10,500 sq. yd.), (b) King Street, Brynmawr (15,700 sq. yd.), for C.C. Documents from County Surveyor, Walton, Brecon. Tenders by August 31.

***Bridgwater, Som.**—Widening of Wembdon Road, for B.C. Deposit £2 2s. Tenders by September 11.

***Brierley Hill, Staffs.**—Levelling land off Corbyns Hall Road, for U.D.C. Deposit £2 2s. Tenders by September 14.

Buckinghamshire.—Making-up of Croft Road, Chalfont St. Peter, for C.C. Documents

from the County Surveyor, County Offices, Aylesbury. Deposit £2. Tenders by September 4.

Burnley, Lancs.—Hot rolled asphalt surfacing of approximately 9,000 sq. yd. of dual carriageway in Colne Road, for B.C. Documents from the Borough Engineer and Surveyor, 22-24 Nicholas Street, Burnley. Deposit £2. Tenders by August 29.

Caernarvonshire.—Resurfacing the playgrounds at the following schools for Co. E.C.: Portmadoc Junior School; St. George's V.C. School, Llandudno; Ysgol Maelgwn, Llandudno Junction; Lidiardau Primary School, near Pwllheli. Documents from County Architect, County Offices, Caernarvon. Tenders by Aug. 31.

Cardiff.—Making-up the carriageway and footway at the following streets for City Council: (1) Park End Lane, Close and Heol Esgyn (part); (2) Roath Court Road and Lane; (3) Wroughton Place. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s. (cheques payable to Corporation). Tenders by Sept. 1.

Carmarthenshire.—Brecon-Llandovery trunk road, A.40—proposed new bridge and road widening at Gwydderig Bridge, Llandovery, for C.C., in two separate contracts. The bridge is situated within approximately two miles of Llandovery; Contract 1, comprising earthworks, surface water drainage, fencing and carriageway construction with a base of lean mix concrete and single course bitumen macadam surfacing—total length of approximately 270yd.; 2, comprising the demolition of the existing temporary bridge, and masonry arch bridge, and the erection of a new temporary timber bridge, and construction of a new bridge in reinforced concrete approximately 44ft. skew span, and 40ft. between parapets, together with approaches and other appurtenant works—total length of scheme approximately 315yd. Documents from J. R. Richards, county engineer and surveyor, Roads and Bridges Department, County Hall, Carmarthen. Deposit £2. Tenders by September 14.

Coulston and Purley, Surrey.—Private street improvement work at The Ridgeway (remainder), Sanderstead, for U.D.C. Documents from H. M. Collins, Council Offices, Purley. Deposit £3 3s. Tenders by September 5.

Edinburgh.—Construction of castle terrace car park, for City Council. Deposit £5 5s. Tenders by October 2.

Epsom and Ewell, Surrey.—Private street works at Huntsmoor Road, Ewell, including the frontage to 141 Riverview Road, for B.C., comprising concrete carriageway, tarmacadam footways, kerbing, footway crossings and verge, etc. Documents from the office of Colin Cobbett, borough engineer and surveyor, Town Hall, Epsom. Deposit £2 2s. Tenders by Sept. 11.

Exeter.—Following for City Council: (1) Widening of Market Street and Guinea Street; (2) service road and car park, rear of groups 20-22 Paris Street, comprising two separate road schemes combined in one contract. The works comprise in total the laying of 740 sq. yd. 8in. reinforced concrete carriageway, 1,900 sq. yd. of 9in. dry-bound macadam carriageway and car park, 1,900 sq. yd. of 3in. bitumen macadam surfacing, 740 sq. yd. of rolled asphalt surfacing, 1,800 sq. yd. of precast concrete and tarped footways, and other incidental works. Documents from John Brierley, city engineer and surveyor, Municipal Offices, 7 Southernhay West, Exeter. Deposit £2 2s. Tenders by Sept. 7.

Exeter.—Central areas reconstruction, inner by-pass (stage III) for City Council, comprising the demolition of approximately 2,500,000 cu. ft. of building the moving of approximately 13,000 cu. yd. of excavated material, the laying of approximately 1,900 lin. yd. of 6in. to 24in. diameter sewers, 1,700 lin. yd. of concrete kerb, 5,400 sq. yd. of concrete carriageway, 2,650 sq. yd. of precast concrete flagging, the construction of a subway and retaining wall, the culverting of leats, together with trenching, conduits, chambers, etc., for the Postmaster-General, and other incidental works. Documents from John Brierley, city engineer and surveyor, Municipal Offices, 7 Southernhay West, Exeter. Deposit £3 3s. Tenders by Sept. 18.

Hatfield, Herts.—Private street works, for R.D.C. Deposit £2 2s. each. Tenders by September 11.

Kingswood, Som.—Advance roads and sewers, for U.D.C. Deposit £10. Tenders by September 12.

Lancashire.—Construction and completion of roadworks in Waverley Road, Ramsgrave, near Blackburn, for C.C. Documents from County Surveyor and Bridgmaster, P.O. Box 9, Preston. Deposit £2. Tenders by Sept. 1.

Liverpool.—Following for City Council: (a) Reinstatement of roads at Belle Vale temporary housing estate; (b) improvements to 11 cottages, Kirkby estate. Documents from City

Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool 2. Deposit £2 2s. payable to City Treasurer. Tenders by September 6.

Llanelli, Carm.—Making up of part of the roadway known as Corporation Avenue, between Highmead House and Panteg, Felinfoel, for B.C. The work comprises the foundation, surfacing and kerbing of approximately 450yd. of roadway Applications to the Borough Engineer and Surveyor, Town Hall, Llanelli. Deposit £2 2s. Tenders by September 2.

London.—Construction of a new road and the widening of existing roads at Bessborough Gardens, Westminster, for C.C. Documents from the Chief Engineer, County Hall, Westminster Bridge, S.E.1. Deposit £5, cheque payable to C.C. Plans seen on personal application at Room 450D, County Hall, S.E.1, before payment of fee. Tenders by Sept. 18.

Luton, Beds.—Construction of access roads and other works at Stockingstone Road and Winsdon Hill allotments, for B.C., including approximately 2,800 lin. ft. of access roads, fencing and associated earthworks. Documents from Borough Engineer, Town Hall, Luton. Deposit £2 2s. cheques payable Corporation. Tenders by August 31.

Midhurst, Sussex.—Making-up roads at Harrows housing estate, for R.D.C. Deposit £2 2s. Tenders by September 18.

Morecambe and Heysham, Lancs.—Making-up of the undermentioned private streets for B.C.: Battismore Road (part), 80 lin. yd.; Low Lane (north), 570 lin. yd.; Low Lane (south), 173 lin. yd. Documents from the Borough Engineer and Surveyor's Office, Council Offices, Morecambe. Deposit 10s. each street, cheques payable to Corporation. Tenders by Sept. 4.

Newcastle upon Tyne.—Following at Longbenton housing estate (unit 3) for City Council: Construction and maintenance of approximately 2,000 sq. yd. of 6in. reinforced concrete paving to access roads and aprons, together with ancillary works, at five garage sites. Documents from the office of the City Engineer, Town Hall, Newcastle upon Tyne. Tenders by Sept. 14.

Northumberland.—Supply and laying of hot rolled asphalt, for C.C. Apply by August 28.

Poole, Dorset.—Making-up of Benmoor and Borley Roads and for surface water drainage for B.C. The total length of streets is 500yd. approximately. Documents from the Borough Engineer, Municipal Offices, Poole. Deposit £2 2s. Tenders by Aug. 31.

Radcliffe, Lancs.—Making-up of Warth Fold Road, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Radcliffe. Tenders by September 1.

St. Helens, Lancs.—Private street works, contract 2171, for B.C. Deposit £2 2s. Tenders by September 18.

Salford, Lancs.—Making up and completing of Granville Road, Salford 6, for City Council Documents from City Engineer and Surveyor, Town Hall, Salford, 3. Tenders by September 1.

Sleaford, Lincs.—Surface dressing of approximately 16,000 sq. yd. of carriageway, for U.D.C. Documents from the Surveyor, Westgate House, 25 Westgate, Sleaford. Tenders by September 2.

Southall, Middx.—Reconstruction of The Green (Kingston Road to Bridge Road): resurfacing of Station Bridge (contract 989) for B.C. The works will involve removing, to a maximum depth of 18in., approximately 1,350 sq. yd. of tarmac carriageway; laying approximately 1,350 sq. yd. of 9in. reinforced concrete raft; scarifying approximately 2,500 sq. yd. of tarmac carriageway to a depth of 3in., and resurfacing the whole with 3in. of rolled asphalt in two courses. Documents from the Borough Engineer and Surveyor, Town Hall, Southall. Deposit £2. Tenders by Sept. 7.

Southampton.—Making-up Wakefield Road (part), approximate length 510yd. (contract PSW80) for B.C., including tarmacadam footways and carriageway, concrete kerb and channel, surface water drainage, and incidental works. Applications to the Borough Engineer and Surveyor, Civic Centre, Southampton, before Aug. 31.

Southborough, Kent.—Reconstruction of Yew Tree Road (class III, approximate length 909yd.) for U.D.C. Documents from the Surveyor, Council Offices, Southborough, Tunbridge Wells. Deposit £2 2s. Tenders by Sept. 11.

Southgate.—Reconstruction and widening of section of Barrowwell Green, N.21 (contract 1723) for B.C., involving excavating in the existing carriageway (area 2,200 sq. yd.) to a depth of approximately 12in., and the provision and laying of an 8in. thick 15:1 lean-mix concrete foundation and base course of 2in. tarmacadam with lin. bitumen macadam surfacing, and other ancillary works, including the construction of a car park of approximately 1,450 sq. yd. with hardcore foundation and two-course bituminous surfacing. Applications to the Borough

Engineer and Surveyor, Town Hall, Palmers Green, London, N.13. Tenders by Sept. 4.

Spennborough, Yorks.—Private Street works, Brookfields Road, for B.C. Tenders by September 7.

Stoke-on-Trent, Staffs.—Improvement of Weston Road, for City Council. Deposit £3. Tenders by September 13.

Surrey.—Improvement of London-Portsmouth trunk road (A.3) at Hindhead, comprising widening and reconstruction of carriageway, surfacing with rolled asphalt, kerbing, surface water drainage and footpath works for C.C. Plans seen at the office of County Divisional Surveyor, Bury Fields, Guildford. Documents from County Engineer, County Hall, Kingston-upon-Thames. Tenders by Sept. 9.

Thetford, Norfolk.—Green Lane improvement, for B.C. Tenders by September 19.

Thornbury, Glos.—Fishers Road, Berkeley (road extension), Oakfield Way, Sharpness (completion of road works) for R.D.C. Applications to Rainger, Rogers and Smithson, architects, Glenmore Lodge, Wellington Square, Cheltenham, by Aug. 26. Deposit £3 3s.

Tipton, Staffs.—Following for B.C.: (1) Aston Street housing site, contract 2, completion of roadworks, 650 sq. yd. asphalt surfacing 240 sq. yd. flag paving and 1,820 sq. yd. turfing and ancillary works; (2) Woodcroft estate, reconstruction of roads, 5,300 sq. yd., breaking concrete slabs and reconstructing in pitching with dense bitumen macadam surfacing, 2,200 sq. yd. bitmac footways. Applications to J. Butler, borough engineer and surveyor, Municipal Buildings, Sedgley Road West, Tipton. Deposit £2 2s. each (cheques payable to Corporation). Tenders by Sept. 6.

Torquay, Devon.—Carrying out foundation work, drains, and services for a prefabricated sports pavilion at Torre Valley, also including all trades in finishing after the pavilion has been erected by the makers for B.C. Written applications to the Borough Surveyor, Town Hall, Torquay, by Aug. 30. Deposit £2 2s. (cheque).

Wallasey, Ches.—Mosslands Drive—road works, for B.C. Deposit £2. Tenders by September 20.

Waltham Holy Cross, Essex.—Reconstruction at Lea Road, for U.D.C. Tenders by September 18.

Wednesfield, Staffs.—Road maintenance, for U.D.C. Deposit £1 1s. Tenders by September 4.

West Riding.—Aerial survey of an area approximately 125 sq. miles, for C.C. Documents from the County Engineer and Surveyor, County Hall, Wakefield. Tenders by September 4.

Whitstable, Kent.—Making-up of Beresford Road (length approximately 350ft.) for U.D.C., comprising the construction of concrete carriageway, footway paving and drainage. Documents from the offices of the Engineer and Surveyor, The Castle, Whitstable. Tenders by Sept. 11.

Widnes, Lancs.—Oxford Street improvement contract 406, for B.C. Deposit £2 2s. Tenders by August 30.

Worcester.—Site completion works—Rea Way, Dines Green housing estate, for City Council, Deposit £2 2s. Tenders by September 14.

Worthing, Sussex.—Demolition of buildings on sites in Gloucester Place (four buildings) and Ann Street (four buildings), and the construction of car parks (total area 1,000 sq. yd.) on the sites for B.C. Documents from the Borough Engineer, Town Hall, Worthing. Deposit £2 2s., payable to Corporation. Tenders by Sept. 21.

York.—Windsor Garth redevelopment—stage II, for City Council, Deposit £2 Tenders by September 11.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bath, Som.—Construction of approximately 180 lin. yd. of 6in. diameter stoneware pipe and four manholes in brickwork, together with appurtenant works, at Whiteway Road, for City Council. Documents from the Office of the City and Waterworks Engineer, Guildhall, Bath. Deposit £2 2s. Tenders by September 4.

Berkshire.—Construction of surface water main—M.4, for C.C. Deposit £2 2s. Tenders by September 1.

Bury, Lancs.—Extensions to Blackford Bridge sewage works, primary treatment plant and storm water tanks, for B.C., comprising reinforced concrete detritus tanks, screen chambers, storm water tanks, storm water overflows and channels, pumping stations, rising mains, mechanical plant, sewerage, access roads, and ancillary works. Documents from Borough Engineer, Town Hall, Bury. Deposit £5 5s. Tenders by September 2.

Chigwell, Essex.—Extensions to Luxborough sewage works, for U.D.C. Deposit £5 5s. Tenders by September 25.

•Colliers Wood.—Replacement of clinker media, for Wandle Valley Joint Sewerage Board. Tenders by September 11.

Cowes, I. of W.—Laying of 400 yd. of 12in. diameter foul sewer in concrete pipes with flexible joints along the east side of the Woodvale Stream. Gurnard, together with concrete manholes and other appurtenant works, for U.D.C. Documents from the Surveyor and Engineer, Northwood House, Cowes. Deposit £2 2s. Tenders by September 8.

Dudley, Worcs.—Sledmore Road flood relief scheme, for B.C., comprising approximately 80 lin. yd. of 18in. diameter concrete stormwater sewers and 60 lin. yd. of 9in. diameter stormwater sewers. Applications to the Borough Engineer, The Council House, Dudley, by August 28. Deposit £2 2s.

East Retford, Notts.—Construction of approximately 4,200 lin. yd. of 4in. diameter stoneware house connection, with inspection chambers at Walkeringham and Beckingham, contract 5, for R.D.C. Documents from John H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6. Deposit £3 3s., cheque payable to R.D.C. Tenders by September 1.

•Flintshire.—Under drainage, opencast coal sites, for Ministry of Agriculture, Fisheries and Food. Tenders by September 15.

Godstone, Surrey.—South Godstone sewage disposal works. Construction of two reinforced concrete storm water tanks and pumping sump, pump-house and flume channels, together with the laying of approximately 205yd. of 12in. diameter cast-iron pipe soil sewer, 270yd. of 9in. diameter stoneware pipe soil sewer, and other ancillary works, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Oxted, Deposit £5 5s. Tenders by September 13.

Kidsgrove, Staffs.—Reconstruction of sewers at Newchapel, for U.D.C., including the laying of approximately 600yd. of 9in. and 12in. concrete pipes, together with manholes and other ancillary works. Documents from the Engineer and Surveyor, Town Hall, Kidsgrove. Deposit £2 2s. Tenders by September 20.

Kirkcaldy, Fifes.—Construction of sewers manholes and ancillary drainage works at Dunnikier Park housing estate for B.C. Work will include construction of approximately 820 lin. yd. of sewers of 9in. and 12in. diameter. Documents from the Burgh Engineer, Town House, Kirkcaldy. Tenders by Sept. 18.

Littleborough, Lancs.—Construction of approximately 93 lin. yd. of 9in. diameter earthenware sewer and one brick chamber, for U.D.C. Documents from D. W. Allison, engineer and surveyor, Council Offices, Littleborough. Tenders by September 4.

Macclesfield, Ches.—Langley sewer for B.C., including laying and jointing of 850yd. 9in. diameter and 220yd. 12in. diameter concrete pipes, 135yd. 9in. diameter steel pipes and 150yd. 9in. diameter cast-iron pipes, the construction of 18 brick manholes, and piers to carry part of the steel sewer. Documents from the Engineer and Surveyor, Town Hall, Macclesfield. Deposit £2 2s. Tenders by September 8.

•Malvern, Worcs.—Sewerage scheme etc., for U.D.C. Deposit £5 5s. Tenders by September 15.

Newry, Down.—Sewerage scheme, contract 1, for U.D.C., comprising the construction of (a) sewage treatment works for the town, comprising inlet works, sedimentation tanks, sludge digestion tanks, works pump-house and administrative buildings, sludge drying beds, river outfalls, together with piling and ancillary works; (b) approximately 920 lin. yd. 18in. diameter, 295 lin. yd. 4in. diameter, 790 lin. yd. 3in. diameter spun-iron main; (c) sewage and stormwater pumping station and approximately 410 lin. yd. low level 21in. diameter inlet sewer; (d) 21in. diameter pipe crossing under Newry Canal by thrust boring, and a 21in. diameter pipe crossing under Newry River. Documents from Munce and Kennedy, consulting engineers, 133 University Street, Belfast, 7. Deposit £5 5s., cheque only, payable to the Council. Plans also seen at the Council Offices, Town Hall, Newry. Tenders by Sept. 11.

•Newtownabbey, Antrim.—Supply and laying of approximately 269 lin. yd. of 9in. glazed ware pipe, on Doagh Road at Monkstown factory estate for U.D.C. Documents from the Town Surveyor, Town Hall, Newtownabbey. Deposit £3 3s. Tenders by Sept. 18.

•Northampton.—Laying pipes, for B.C. Deposit £2 2s.

Pewsey, Wilts.—Construction at North Tidworth of approximately 400 lin. yd. of 6in. concrete sewer, 30 lin. yd. of 6in. spun iron sewer, concrete tube manholes and 4in. glazed stoneware house connections, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Pewsey. Tenders by September 6.

•Poole, Dorset.—Hamilton Road and Coles Avenue—soil sewer relief scheme, for B.C.,

including the construction of 160 yd. of 6in. and 110 yd. of 9in. relief soil sewers. Documents from the Borough Engineer, Municipal Offices, Poole. Deposit £2 2s. Tenders by September 7.

Richmond, Yorks.—Following for the Moulton sewerage scheme for R.D.C.: (Contract 1) Construction of approximately 1,110yd. of 6in. earthenware sewer, an ejector station, and approximately 175yd. of 4in. spun-iron pumping mains; a disposal works, comprising balancing and sedimentation tank, percolating filter, humus tanks and sludge drying beds; (2) supply and erection of a duplicate set of 18 g.p.m. compressed air ejectors. Documents from the Engineer and Surveyor, Swale House, Richmond. Deposit £2. Tenders by Sept. 4.

•Rotherham, Yorks.—Aldwarke sewage works reconstruction—contract 9, for B.C. Deposit £5 5s. Tenders by September 18.

Sevenoaks, Kent.—Kensing (contract ii) sewerage scheme, for R.D.C., including the construction of approximately 2,370 lin. yd. of 6in. and 8in. diameter pitch fibre sewers and 32 brick manholes. Documents from the Office of the Engineer and Surveyor, Inglewood, Oakhill Road, Sevenoaks. Deposit £2 2s. Tenders by September 5.

Shrewsbury, Salop.—Construction of two surface water sewers and a foul sewer, comprising following approximate quantities, at Belvedere, for B.C.: 450 lin. yd. 30in. diameter concrete pipe; 700 lin. yd. total of 15in., 12in. and 9in. concrete pipe; 300 lin. yd. 9in. S.G.W. pipe, with inverted syphon spun iron pipe under railway and appurtenant manholes. Documents from Borough Surveyor, Guildhall, Shrewsbury. Deposit £2 2s. Tenders by September 11.

South East Derbyshire.—Alvaston and Boulton sewerage and stocker flat sewerage, for R.D.C., which comprise the following:—

(1) Foul water sewers—6in., 9in. and 12in. diameter, salt glazed ware, approximately 1,450 lin. yd. complete with brick and precast concrete manholes; (2) combined sewers—36in. to 54in. diameter spun concrete, approximately 1,300 lin. yd. complete with brick manholes; (3) storm water overflow chamber—a brick and concrete chamber with mechanically raked screens and ancillary works; (4) pumping station—an automatic pumping station with wet and dry wells of mass concrete and brick superstructure to house four electrically driven centrifugal pumps, control gear, etc., 170 lin. yd. of 8in. diameter rising main; (5) ejector station—a small automatic ejector station of mass concrete and brick construction housing two ejectors, control gear, etc., 280 lin. yd. of 4in. diameter rising main; (6) surface water sewer and re-grading of watercourse—36in. and 48in. spun-concrete approximately 700 lin. yd. complete with brick manholes, etc., re-grading and deepening existing watercourse, approximately 1,300 lin. yd.; (7) the restoration of surfaces and the maintenance of works for a period of 12 months. Documents from Sir Herbert Humphries and McDonald, consulting engineers, Park Chambers, 276 Monument Road, Edgbaston, Birmingham 16. Deposit £10 10s. cheque payable to R.D.C. Plans also seen at the Office of the Senior Public Health Inspector to the Rural District Council, Council Offices, St. Mary's Gate, Derby. Tenders by September 18.

Stokesley, Yorks.—Ingleby, Arncliffe and Ingleby Cross sewerage and sewage disposal scheme, for R.D.C., including the following works: Sewers—the laying of 352yd. of 8in. diameter, 1,482yd. of 6in. diameter, 280yd. of 4in. diameter pitch fibre pipe sewers and 70yd. of 6in. diameter C.I. sewers, together with manholes—32 precast concrete ring segment manholes varying in depth from 5-11ft.; ejector station—the construction of a small compressed-air ejector station to house two 20 g.p.m. ejectors, comprising well 8ft. x 10ft. 6in. x 15ft. deep, and house, 14ft. x 10ft. 6in. x 8ft. high, together with the construction of 210yd. of 4in. cast-iron rising main, and appurtenant fencing and site works; sewage disposal works—the construction of two pyramidal sedimentation and humus tanks, two percolating filters, sludge drying beds, ejector house and well, together with appurtenant fencing and site works. Documents from Engineer and Surveyor, Council Offices, Stokesley, Middlesbrough, on and from August 18. Deposit £5 5s., cheque payable to R.D.C. Tenders by October 6.

Strood, Kent.—Construction of a filter bed and humus tank, together with ancillary works at the sewage disposal works, Allhallows, for R.D.C. Applications to the Engineer and Surveyor, Council Offices, Frindsbury Hill, Strood. Deposit £5 5s. Tenders by September 13.

Sutton-in-Ashfield, Notts.—Repairs to humus tank at Unwin Road sewage works for U.D.C., including the demolition of approximately 40 sq. yd. of 14in. blue brick work, and

the construction of a reinforced concrete retaining wall, 17yd. long and 2yd. high. Documents from the Engineer and Surveyor, Forest Lodge, Station Road, Sutton-in-Ashfield. Tenders by Sept. 8.

•Swinton and Pendlebury, Lancs.—Clifton drainage, contract 4, for B.C. Deposit £5 5s. Tenders by September 20.

Tonbridge, Kent.—Drainage works at The Batters, Maidstone Road, Paddock Wood, consisting of 162yd. of 36in. steel pipes; 12yd. of 36in. concrete culvert and ancillary works, for R.D.C. Documents from the Engineer and Surveyor, 48 Pembury Road, Tonbridge. Tenders by September 25.

•Urmston, Lancs.—Trafford Park sewerage scheme, for U.D.C. Deposit £5 5s. Tenders by September 20.

West Bridgford, Notts.—Following, for U.D.C. Construction of works comprising about 3,100 lin. yd. of glazed stoneware and spun iron pipe sewers of diameters ranging from 30in. to 6in. (part of which may be laid in tunnel), with manholes about 5,200 lin. yd. of spun iron rising mains of diameter ranging from 10in. to 24in. (including a crossing under the River Trent) with chambers and hatchboxes, two sewage pumping stations and storm water tanks, involving reinforced concrete construction together with incidental works. Documents from A. H. S. Waters and Partners consulting engineers, 25 Temple Row, Birmingham, 2, or A. G. Mansfield, clerk of the Council, Offices of the West Bridgford Urban District Council, The Hall, Bridgford Road, West Bridgford. Deposit £5 5s. Tenders by September 26.

Whitehaven, Cumb.—Following for B.C.: (a) Cleansing Pow Beck—553 lin. yd.; (b) surface water culvert Sandwith—280 lin. yd. 36in. diameter concrete pipes. Documents from Borough Engineer, Town Hall, Whitehaven. Tenders by September 4.

•Wigan, Lancs.—Parbold and District sewerage scheme, contract 3, for R.D.C. Deposit £5 5s. Tenders by October 2.

York.—Reconstruction of the Knavesmire Culvert (part), and ancillary works, comprising approximately 580 lin. yd. of 30in. diameter spun reinforced concrete pipe, with four concrete manholes on in-situ bases for City Council. Documents from Chas. J. Minter, city engineer, surveyor and planning officer, 7 St. Leonard's Place, York. Deposit £3, cheques payable to Corporation. Tenders by Sept. 12.

Worthing Sussex.—Reconstruction of approximately 1,200 lin. yd. of existing foul sewer between Eton Road and Teville Place for B.C. The work includes for excavation in trench 9ft. to 12ft. deep, breaking out existing pipes and re-laying in 18in., 21in. and 24in. diameter concrete tubes, precast concrete manholes, connections, and ancillary works. Documents from the Borough Engineer and Surveyor, Town Hall, Worthing. Deposit £2 2s. Tenders by Sept. 11.

STREET LIGHTING

Basingstoke, Hants.—Group A. street lighting, for B.C. Deposit £2 2s. Tenders by September 7.

Carshalton, Surrey.—Supply and erection of street lighting columns and equipment, stage v (balance), for U.D.C. involving 556 concrete lighting columns (15ft. mounting height), with equipment—26 for high standard group B sodium lighting, 530 for tungsten lighting. Documents from the Engineer and Surveyor, Stone Court, The Grove, Carshalton. Tenders by September 6.

Enniskillen, Fermanagh.—Street lighting of villages 159 fluorescent lighting points, for R.D.C. Documents from the Office of the Engineer and Surveyor, Rural Council Offices, Cornagrade, Enniskillen. Deposit £2 2s. Tenders by September 4.

Flintshire.—Supply and delivery of precast concrete or steel lighting columns, lanterns, lamps, and all fittings, to the site of the roadworks at Queensferry, for C.C. Documents from the County Surveyor, Llwynegryn, Mold. Tenders by September 4.

•Lytham St. Anne's, Lancs.—Street lighting, for B.C. Tenders by September 25.

Newcastle-under-Lyme, Staffs.—Conversion of group A street lighting. North of Newcastle-under-Lyme — Nantwich — Tarporley — Tarvin trunk road, A.52, for B.C. Supply, delivery and installation of 35 200-W sodium vapour group A lighting units, including conversion fitting for existing steel columns, 200-W sodium lanterns, lamps, and ancillary equipment. Documents from the Borough Engineer, Lancaster Building, High Street, Newcastle, Staffs. Tenders by September 11.

Oldbury, Worcs.—Class B lighting programme, 1961-62—contract 61/4, for B.C., including the supply and erection of approximately 154 class B concrete street lighting columns and the supply and fitting of G.E.C. post tog lanterns, with lamps, time switches, control gear, etc., in various streets. Docu-

ments from the Office of the Borough Engineer and Surveyor, Municipal Bank Chambers, Oldbury. Deposit £2 2s. cheque payable to B.C. Tenders by September 5.

***Ripon, Yorks.**—Street lighting 1961-62, for City Council. Deposit £2 2s. Tenders by September 11.

Rothwell, Yorks.—Sodium lighting, for U.D.C. Deposit £2 2s. Tenders by September 8.

Stockton-on-Tees, Dur.—Relighting of trunk road A.19, fr B.C., including only of: (a) 13 reinforced concrete group A lighting columns; (b) 13 140-W S.V.D. lamps lanterns, and ancillary equipment. Documents from Gilbert Cowan, borough engineer and surveyor, Municipal Buildings, Church Road, Stockton-on-Tees. Deposit £2 2s. each. Tenders by September 8.

INTERNATIONAL

Australia.—Contract 20065 for Snowy Mountains Hydro-electric Authority. Tenders are invited for a lump-sum and schedule of rates contract for furnishing labour and material and performing all work for the design and construction in New South Wales of Murray I Pressure Pipeline, comprising two steel pipelines each approximately 5,300ft. long and of largest diameter 13ft. 9in., together with distribution manifolds connecting the pipelines to eight Francis turbines. The maximum design head is approximately 1,900ft. The design and construction of anchor blocks, piers and other ancillary works are included in the contract. Also included is the supply and delivery of approximately 900ft. of steel tunnel liner sections 13ft. 9in. in diameter. The successful tenderer will be required to undertake the whole of the responsibility for the design, fabrication, erection and testing of the pipelines and of all necessary ancillary works including all design and construction excepting preliminary excavation of the pipeline bench. Preliminary excavation of the pipeline bench has been carried out by the Authority and the bench will be available for inspection by intending tenderers. Concrete aggregate for the work will be supplied to the contractor at a fixed price per cubic yard. Location: The site is in the Snowy Mountains area in the south-eastern part of the State of New South Wales, Australia, at approximately longitude 148 deg. E. and latitude 30 deg. S. The elevation of the site varies between 2,000ft. and 4,000ft. above sea level. Relation to other work: Concurrently the Authority will have under construction the Murray I Pressure Tunnel and the Murray I Power Station, the sites of which are adjacent to the site of the pipeline. The contractor for Murray I Pressure Pipeline will be required to deliver the steel tunnel liner sections to the contractor for the Murray I Pressure Tunnel by a specified date. Concreting-in of the distribution manifolds on the pipeline will be carried out by the power station contractor and the contractor for the pressure pipeline is required to have the manifolds ready by specified dates for this concreting to proceed. Tender documents: Tender documents consisting of the form of tender, conditions of tendering, general conditions of contract, draft form of agreement, schedules, table of estimated quantities and amounts, specifications and drawings will be available on Aug. 21, 1961, and may be obtained by prospective tenderers on payment of £8 per set on application to Chief Procurement Officer, Australia House, Strand, London, W.C.2. Four additional sets of documents for purposes of tendering will be provided free of charge at the time of inspection of the site. Preliminary deposit: A preliminary deposit of £3,000 Australian, payable at Sydney, New South Wales, Australia, must be lodged with the tender for the contract. Inspection of the site: Tenderers are required to inspect the site of the works, and should communicate with the Snowy Mountains Authority, Cooma, New South Wales, Australia, regarding detailed arrangements. General information: For its own purposes the Authority has compiled certain information regarding the geology, hydrology and meteorology of the region and general information concerning local conditions. The information is not part of the tender documents. This information will be made available to tenderers when they inspect the site. Special qualifications required of tenderers: Consideration of tenders is dependent upon tenderers having a background of successful achievement in the execution of the design, manufacture, and erection of similar large pressure pipelines and possessing technical and other resources necessary to complete the work successfully within the contract period. Submission of tenders: Tenders for the contract

must be submitted in duplicate in accordance with the conditions of tendering, enclosed in sealed envelopes appropriately endorsed with the contract number and name of the works tendered for, addressed to The Business Manager, Snowy Mountains Hydro-electric Authority, Post Office Box 332, Cooma North, N.S.W., Australia. The tenders must be lodged in the tender-box at Head Office of the Authority at Cooma or be sent by prepaid post in time to be delivered in ordinary course of mail by 12 noon on Monday, Feb. 5, 1962.

Iraq.—Construction of Dibbis Dam of Kirkuk Irrigation Project, for Ministry of Agriculture. The works consist of the following: Concrete spillway with radial crest gates capable of passing a flood of 4,000 cu. metres per second, the main body of the dam of compacted river bed gravels with vertical articulated concrete core wall and head regulator for an offtake canal capable of passing 300 cu. meter per second. The principal quantities for the works are estimated as follows: (a) Concrete, 63,000 cu. metres; (b) reinforcing steel, 1,250 tons; (c) compacted gravel fill, 250,000 cu. metres; (d) excavation, 300,000 cu. metres; (e) cutoff in alluvium, 3,500 sq. metres; (f) grout curtain in bed rock, 22,500 sq. metres; (g) radial gates 11 metres wide by 8.0 metres high, 8; (h) radial gates 7.5 metres wide by 4.7 metres high, 5. Tenderers may obtain one copy of Volume I, two copies of Volume II and one copy of Volume III of the tender documents on payment of £25 (not refundable) from the Legal Section of the Directorate General of Irrigation, Baghdad, or from the Iraqi Embassy in London. Tender documents may be inspected at the following places: (A) Legal Section of the Directorate General of Irrigation; (B) Embassies of the Republic of Iraq at London, Moscow, Bonn, Washington and Tokyo, also at the Legations of the Republic of Iraq, at Vienna, Austria; Geneva, Switzerland; and Brussels, Belgium; (C) the office of the Consulting Engineers, Binnie, Deacon and Gourley (Baghdad). Tenders to the Legal Section of the Directorate General of Irrigation, Baghdad, Iraq, on or before noon local time November 8.

***Malta.**—Sewerage, Pitkali extension, for Government. Deposit £2. Tenders by October 9.

***New South Wales, Australia.**—Construction of bridge over the George's River, for Department of Roads. Tenders by February 1.

Sudan.—Widening of the White Nile Bridge, for the Republic. Further to the notice issued by the Minister of Local Government inviting applications from firms of established international repute and experience to tender for the design and construction of the reinforced concrete or steel roadway across the River Nile between Omdurman and Shambat (Contract Journal, August 3). The contract will also include the construction, to the consulting engineers' detailed design of roadways carried on steel cantilevers on the outer sides of the existing Khartoum-Omdurman Bridge over the White Nile. Each roadway is to be 2,012ft. long and 13ft. wide, with a footpath 3ft. wide. The widening of the approaches to this bridge is not included in the works. Preliminary drawings can be seen at the office of the Director, Ministry of Local Government, Khartoum, and the Consulting Engineers, Coode and Partners, Abbey House, Victoria Street, London, S.W.1. It is expected that tender documents will be issued to approved tenderers on November 17, 1961, and four months (and no more) will be allowed for the preparation of tenders. Applications to the Director, Ministry of Local Government, Khartoum, with copy to the Consulting Engineers, by September 15, giving full details of previous experience in the design and construction of such a bridge.

AWARDS

BUILDING AND DECORATING

(See also Housing Schemes)

Ashton-under-Lyne, Lanes.—Construction of the Central Omnibus Station (excluding the erection of a shop and flat) on Katherine Street for B.C.—James Miller and Partners, Ltd., Newmillerdam, Wakefield, £85,597 (recommended, subject to M.T. approval).

Barry, Glam.—External painting of 635 houses at various sites for B.C.—Norman Oldham, Ltd., 43 Brunswick Street, Cardiff, £13,785 (recommended).

Basildon, Essex.—Erection of a factory for Spong and Co., Ltd. Fuller, Hall and Foulsham, architects, 212 High Holborn, London, W.C.1—W. and C. French Ltd., 50 Epping New Road, Buckhurst Hill. Cost £150,000.

Bedfordshire.—Erection of county secondary school at Toddington for E.C.—J. M. Hill and Sons (Amphill), Ltd., Church Street, Amphill, £140,158 (accepted); G. Calverley and Sons (Contractors), Ltd., £141,140; T. and E. Neville, Ltd., £148,112; T. Lowe and Sons, Ltd., £147,679; A. J. G. Potter and Son, £144,212; Arthur Sanders, Ltd., £145,126. Work to commence Sept. 4.

Belfast.—Rebuilding of premises at corner of High Street and Lombard Street for Scottish Widows' Fund and Life Assurance Society—McLaughlin and Harvey, Ltd., Castleton Building Works, 34-38 York Road, Belfast, 15. Young and Mackenzie, architects, 2 Wellington Place, Belfast; Andrew G. Crawford, quantity surveyor, 1 Lombard Street, Belfast, and McCandless and Barton, consulting engineers, 6 Murray Street, Belfast.

Bexley, Kent.—Following for B.C.: Internal painting of Welling County Secondary Girls' School and Upland County Primary Infants' School—W. J. Holland (Kent), Ltd., Parrock Street, Gravesend, £2,690, and Direct Labour, £760, respectively; external painting of Bexley Grammar School, Upland County Primary Junior School and Brampton County Primary School—R. B. Butler, Ltd., 207 Broadway, Bexleyheath, £1,225, Direct Labour, £475, and P. J. Hartel (London), Ltd., 1 Montague Street, London, W.C.1, £548, respectively (recommended).

Birmingham.—Following for City Council. A. G. Sheppard-Fidler, city architect: Alterations at Colmore Junior and Infants' School—R. Blayney and Sons, Ltd., Alcester Road, Wythall, near Birmingham, £23,918; re-modelling Station Road Junior and Infants' School—F. N. Adams, Ltd., 54 Stratford Road, Camp Hill, Birmingham, 11, £15,297; alterations and extensions at Lea Village Secondary School—J. and F. Wootton, Ltd., Pinfold, Bloxwich, Walsall, £63,761; alterations and additions at Stechford Primary School—E. G. Brown and Sons, Ltd., Stuarts Road, Stechford, Birmingham, 33, £22,315; erection of Vauxhall Gardens Primary School—Maddocks and Walford, 359 Tyburn Road, Erdington, Birmingham, 24, £73,734; construction of tenants' room at Stonehouse Farm estate and at Ley Hill estate—Mackee and Rodway (Contractors), Ltd., 1 Chatham Road, Northfield, Birmingham, 31, £9,485 and £7,562, respectively; improvements to Witton Hall and provision of superintendent's house—A. G. Churcher (Birmingham), Ltd., 165-7 Lozells Road, Birmingham, 19, £49,493; four children's homes, 15 standard houses, garages, Bartley Green and West Heath areas—Direct Labour, £61,314.

Bristol.—Erection of a large block of show-rooms, offices and warehouse at Victoria Street for Denton Heath Trading Co., Ltd. Alec. F. French and Partners, architects and surveyors, Pearl Assurance House, Queen Square—W. Cowlin and Son, Ltd., Stratton Street, Bristol, 2. Foundation work commencing next month.

Cardiff.—Supply and drive 1,000 55ft. long Vibro-driven in-situ piles, each capable of carrying a working load of 60 tons for the new 16in. mill at Tremorfa for Guest, Keen and Nettlefolds, Ltd., Davies, Middleton and Davies, Ltd., Phoenix Works, Caerphilly Road, Cardiff. Work commenced.

Carlisle, Cumb.—Erection of temporary casualty department at Cumberland Infirmary for Newcastle Regional Hospital Board—Herbert Cartner and Sons, Knowe Terrace, Carlisle, £45,381.

Cheltenham, Glos.—Following for B.C. (a) Reinstatement of fire-damaged portion, and (b) improvement works and completion of the reorganisation scheme at Municipal Offices—William Moss and Sons, Ltd., Queens Road, Loughborough, (a) £67,193, and (b) £47,070; redecoration of main hall of the Town Hall—Ford and Weston, Ltd., 34 Imperial Square, Cheltenham, £2,825; provision of 34 garages at Severn Road—Woolaway Constructions, Ltd., West Bay Road, Bridport, £67 each (recommended).

Chipping Norton, Oxon.—Improvements to 11 houses at Churchill Road for B.C.—Sole Bros., Albion Street, Chipping Norton, £1,369 (recommended); Alfred Groves and Sons, Ltd., £1,609; C. Pether and Sons, Ltd., £1,864.

Cork, Eire.—Installation of two 145ft. long conveyors at Cork Airport for Ministry of Air and Power—Industry Suppliers (N.E.), Ltd., 226 Park View, Newcastle upon Tyne, £6,000.

Couldson and Purley, Surrey.—Erection of Bradmore Green Library, Old Couldson, for U.D.C. E. F. Starling, architect, 29a Bell Street, Reigate—Williams Bros. (Carshalton), Ltd., £14,896 (subject to Ministry approval).

Darlington, Dur.—Office additions for Paton and Baldwins, Ltd.—John Laing Construction, Ltd., 12 New Bridge Street, Newcastle upon Tyne; works additions, Brinkburn Road, for Whessoe, Ltd.—Bovis, Ltd., Stanhope Gate, London, W.1.
Erection of additional classroom at Abbey Road County Primary School for E.C.—W. Bell and Partners, Darlington, £3,298.

Driffield, Yorks.—Provision of additional lavatory facilities and other work at Petty Sessional Court House for East Riding C.C.—W. Sellers and Sons, Kirkland Street, Pocklington, £1,675.

Elgin, Moray.—Re-roofing of the transepts at Pluscarden Priory, near Elgin, for the Benedictines of Prinkash. Ian Gordon Lindsay, architect, 17 St. Stuart Street, Edinburgh, 2—David Forsyth and Co., Ltd., 7 Reidhaven Street, Elgin, £7,100.

Glasgow.—Reconstruction of the Govan refuse works for City Council—Heenan and Froude, Ltd., Worcester, £1,214,400 (recommended).

Gosport, Hants.—Erection of the Green Dragon licensed premises at Rowner Road for Brickwoods, Ltd., Portsmouth—Hawkins Bros., Ltd., Westfield Road, Gosport, estimated cost £28,000. J. V. Nisbet, staff architect, and Harris and Porter, quantity surveyors, 148 Commercial Road, Portsmouth.

Great Yarmouth, Norfolk.—Following for B.C.: Construction of the area control at the police headquarters—H. A. Holmes and Sons, Ltd., South Ice Hill, Gorleston, £8,500 (recommended, subject to Home Office approval).
Internal painting of the Technical High School—W. J. Davy, Ltd., Selby Place, Great Yarmouth, £3,650 (recommended).

Hastings, Sussex.—Erection of a five-storey block of four shops, offices, flats and maisonnettes at Grand Parade for Star (Greater London) Holdings—Eldridge and Cruttenden, Ltd., St. Leonards-on-Sea. Estimated cost £54,000. Work has just commenced.

Hemel Hempstead, Herts.—Erection of a distribution centre, stores and offices at Swallowdale Road for Kodak, Ltd.—J. Jarvis and Sons, Ltd., 239 Vauxhall Bridge Road, London, S.W.1 (recommended). Estimated cost £1m. J. W. Turner, company architect; Gardiner and Theobald, quantity surveyors, 49 Bedford Square, London, W.C.1; and John De Bremacker and Partners, consulting engineers, 3 Southampton Place, London, W.C.1.

Holborn.—Erection of a shop and offices at 30 St. Cross Street for Watney, Mann Property Co., Ltd. Trehearne and Norman Preston and Partners, architects, 83 Kingsway, London, W.C.2; Cyril Sweett and Partners, quantity surveyors, 37 Bedford Row, London, W.C.1—George Barker (Builders), Ltd., 48 New Road, London, E.1. Estimated cost £20,000. Work commenced.

Huddersfield, Yorks.—New civic centre (phases I and II): Demolition work and site excavation for B.C. S. M. Richmond, borough architect—Wm. Mallinson and Sons (Lockwood), Ltd., Albert Street, Lockwood, Huddersfield.

Huntingdon and Godmanchester, Hunts.—Erection of 19 garages at Kisby Avenue, Cambridge Road site, for B.C.—Hale Bros., Ely Road, Waterbeach, Cambridge, £4,200 (recommended).

Kendal, Westmor.—Supply and erection of iron walk-way and stairs as a secondary exit from the Assembly Hall balcony for B.C.—Lion Foundry Co., Ltd., Kirkintilloch, Glasgow, £1,178 (recommended).

Kensington.—Erection of a six-storey hostel for nurses at la Holland Park London, W.8, for King Edward's Hospital Fund for London—Patman and Fotheringham, Ltd., 15 Islington Park Street, N.1 Playne and Lacey, architects, 19 Queen Anne's Gate, S.W.1; Ove Arup and Partners, consulting engineers, 13 Fitzroy Street, S.W.1; H. Hamilton Turner and Son, quantity surveyors, 19 Queen Anne's Gate, S.W.1.

Lambeth.—Erection of a 20-storey office block at Westminster Bridge Road, S.E.1—Tersons, Ltd., Dollis Hill, London, N.3, £14m. Devereux and Davies, architects, 3 Gower Street, London, W.C.1; Clarke, Nicholls and Marcel, consulting engineers, 21 Westbourne Grove, W.2; H. R. Heasman and Partners, quantity surveyors, 5 Bloomsbury Square, W.C.1.

Lewes, Sussex.—Internal decoration of the Corn Exchange for B.C.—Eames and Calverley, Ltd., Ringmer, Sussex.

Littlehampton, Sussex.—Painting the exterior of 66 houses at Falkland Avenue estate for U.D.C.—Diamond Decorators, Ltd., Taisfield, Westerham, Kent, £1,190. Work to commence Sept.

Londonderry.—Supply and erection of a sectional prefabricated building at Glenvale

Sports Field for the Glenvale Social Club—F. and H. Sutcliffe, Ltd., Wood Top, Hebden Bridge, Yorkshire, £1,868.

Luton, Beds.—Re-roofing of 18 pre-war Council dwellings at Stopsley for B.C.—J. Allen, Granta, Chestnut Avenue, High Wycombe, Bucks., £1,694 (subject to Ministry approval).

Lyme Regis, Dorset.—Alterations and improvements at the Marine Theatre for B.C.—A. and F. Wiscombe, Ltd., Church Street, Lyme Regis, £5,335 (recommended, subject to reductions, subject to Ministry approval).

Middlesbrough, Yorks.—First stage of the Dundas Street shopping precinct for the Metropolitan Railway Surplus Lands Co., Ltd. Cartwright, Woollett and Partners, architects, 6 Clarendon Street, Nottingham—Richard Costain (Construction), Ltd., 111 Westminster Bridge Road, London, S.E.1, £186,000.

Middlesex.—Construction of a stationery and printing stores and offices in a three-storey block on corner site at Long Drive and Victoria Road, South Ruislip, for British European Airways—Holland and Hannen & Cubbitts (Great Britain), Ltd., 1 Queen Anne's Gate, London, S.W.1, £400,000. Architects are Murray Ward and Partners, 32 Wigmore Street, London, W.1; the consulting engineers are Scott and Wilson, Kirkpatrick and Partners, 47 Victoria Street, S.W.1; and the quantity surveyors are Northcroft, Neighbour and Nicholson, Victoria House, Southampton Row, W.C.1.

Morley, Yorks.—Roof repairs at Blackgates Junior School for West Riding C.C.—Rubberoid Co., Ltd., 34 Lincoln Road, Leeds, 9, £985.

Northumberland.—Erection of garages at Rothbury highway depot for C.C.—George Beattie and Co., South Road, Wooler, Northumberland, £3,806.

Nuneaton, War.—Construction of the first stage of the Stockingford C.E. School for B.C.—G. A. Hall, 14 The Square, Attleborough, Nuneaton, £16,236 (recommended).

Rowley Regis, Staffs.—Erection of 45 garages at various sites for B.C.—Direct Labour (recommended). Estimated cost £6,160.

Rugby, War.—Erection of new St. George's Church for the Diocese of Coventry—Hicks and Johnson, Little Church Street, Rugby, estimated cost £25,000. Denys Hinton and Associates, architects, Lloyds Bank Chambers, 85 Regent Street, Leamington Spa, and Silk and Frazier, quantity surveyors, 35 Portland Road, Edgbaston, Birmingham, 16.

Sandy, Beds.—Erection of block of five garages at Longfield Road for U.D.C. R. W. Settle, surveyor—M. B. Sanders, 25 East Road, Sandy, £659.

Sheffield.—Alterations to office accommodation in the Town Hall for City Council—Direct Labour (recommended). Estimated cost £4,800.

Shoreham-by-Sea, Sussex.—Construction of the second stage of the transit shed at the inner lay-by wharf at Southwick for the Harbour Trustees—T. J. Braybon and Son, Ltd., Princes House, North Street, Brighton, 1, £54,167 (recommended).

Spennborough, Yorks.—Erection of one pair of shops and flats at Foldings estate, Scholes, for B.C.—Gregory Construction (Yorkshire), Ltd., Wellesley House, Botham Hall Road, Longwood, Milsbridge, £6,678 (subject to Ministry approval).
External and internal painting and decoration of Highdown County Infants' School—J. Peel, Cleckheaton, £742; similar work at Littletown County Primary School—Tuncliffe and Co., Huddersfield, £847.

Stockport, Ches.—Following for B.C.: Installation of metal windows at St. Anne's R.C. Secondary School—Crittalls Manufacturing Co., Ltd., 55 Brown Street, Manchester, 2, £3,997; erection of South West Stockport Secondary Modern School—F. J. Gibson (Builder) Ltd., 83a Manchester Road, Wilmslow, £179,950.

Stockton-on-Tees, Dur.—Erection of six shops and three flats at Redhill Road for B.C. T. C. Hartley, borough architect—L. Brown and Son, Boathouse Lane, Stockton, £31,262.

Stoke-on-Trent, Staffs.—Provision of a cold room for the fish section of the Hanley Butchers' Market for City Council—Direct Labour (recommended). Estimated cost £1,295.

Stourbridge, Wores.—Erection of a pavilion incorporating public conveniences at Mary Stevens Park for B.C.—J. B. Tibbets (Builders), Ltd., Broad Close, Kingswinford, Brierley Hill, £3,100 (recommended).

Sunderland.—Erection of licensed premises at the corner of Dovedale Road and Alston Crescent. Wetherell, Lamb and Partners, architects, 24 Picton Place, Newcastle upon Tyne—Lane, Fox and Co., Ltd., High Barnes Works, Sunderland.

Sutton, Surrey.—Erection of shops and offices at The Cock Hotel site, 44 High Street, for

Commercial and Suburban Properties, Ltd. Percy Burnett and Partners, architects, 12 Bloomsbury Square, London, W.C.1—Grace and Marsh, Ltd., New Bridge Works, Waddon, Croydon.

Swansea.—Construction of various buildings for new factory at Baglan Bay for British Hydrocarbon Chemicals, Ltd., acting through the engineering division of the Distillers Co., Ltd., D.C.L. Engineering Division was responsible for the design of the buildings in collaboration with their consultant architect, M. Patrick—Turiff Construction Corporation, Ltd., Turiff Buildings, Great West Road, Brentford, Middx. Estimated cost £480,000. Work to begin Sept. 1.

Ulverston, Lancs.—Erection of 18 garages at Well Lane for U.D.C.—Baker and Foster (1960), Ltd., 2 Upper Brook Street, Ulverston, £3,915 (subject to Ministry approval).

Widnes, Cheshire.—External painting of 160 dwellings (section C) for B.C.—G. E. Llewellyn, Lynwood, Broad Lane, Easington, Walsall, £1,660 (negotiated tender).

Wembley, Middx.—Erection of a factory at Wembley for Johnson Matthey and Co.—Haymills (Contractors), Ltd., Hanger Garden, London, W.5. Estimated cost £100,000.

Wem, Salop.—Erection of one block of six brick garages at Cordwell Park, for U.D.C.—G. Pugh, Misty-Dawn, Tilley, Wem, £879 (accepted); J. H. Grindall and Sons, £917; J. L. Richards, £956; Whitechurch (Salop) Contractors, Ltd., £1,130; F. Tommy and Sons, £1,121; H. Ward, £987.

West Bromwich, Staffs.—Stage I of the reconstruction of a church building in Dudley Street for the Swan Village Methodist Church Trustees. J. F. Phillips and Associates, architects, 36 New Street—Gordon Rushton, 71 Dudley Street, West Bromwich, estimated cost £2,680. Demolition work almost complete.

West Bromwich, Staffs.—Conversion of room 22 at the Technical High School into a senior physics laboratory for B.C.—Direct Labour, £2,350 (recommended).

Weymouth, Dorset.—Erection of public conveniences at Lodmoor for B.C.—Wessex Portable Buildings, Ltd., The Cartshed, Sutton Poyntz, near Weymouth, £12,795 (recommended).

Wigan, Lancs.—Erection of licensed premises, Norley Hall Avenue, Pemberton, for Peter Walker (Warrington), Ltd.—D. A. Ablett and Sons, Ltd., Sovereign Road, Wigan. Plans by staff architect; J. W. Gregory, quantity surveyor, 5/7 Hardshaw Street, St. Helens; and Taylor, Whalley and Spyra, 103 Portland Street, Manchester, are the consulting engineers. Work commenced.

DEMOLITION

Grantham, Lincs.—Demolition of 20-25 Manners Street for B.C.—Wimmore Demolition Contractors, 37 Grantham Street, Grantham, £22 10s. per house (recommended).

Morley, Yorks.—Demolition and site clearance of Upper Street Farm for B.C.—H. Benn, Halifax (recommended).

Rushden, Northants.—Demolition of 12 houses at Kilburn Place for U.D.C. W. J. Anker, engineer and surveyor—F. J. W. Humphrey and Son, Rushden, £250. Work about to commence.

Sheffield.—Demolition of properties 3-21 Barrow Road, and properties in courts 1 and 3 Barrow Road for City Council—M. H. and N. B. Lindley, 2 Hollin Busk Road, Deepcar, Sheffield, £140 (recommended).

Stoke-on-Trent, Staffs.—Demolition of the following for City Council: Charles Street Methodist Church premises, Hanley, and 132 King Street, Fenton—Demco Demolition Contractors, Cobridge, Stoke-on-Trent, £225 and £32, respectively; 2 Heathcote Street, Longton—Potters Demolition Co., Ltd., 143 Etruria Road, Stoke-on-Trent, £69 (recommended).

Stourbridge, Wores.—Demolition of 3 and 5 Duke Street for B.C.—Fred Plant and Sons, 41 Withymoor Road, Netherton, Dudley, £30 (recommended).

Widnes, Cheshire.—Demolition of the Reliance Foundry for B.C.—B. H. Norry. Iron Bridge, Salop, to pay Council £460.

West Bromwich, Staffs.—Demolition of approximately 400 premises in Richard Street, Lower Trinity Street and Lyng 1, 2, 3 and 4 areas for B.C.—F. C. Richardson and Sons, Ltd., 130 Summer Lane, Birmingham, 6, C. Williams and Sons, Ltd., 337 Lichfield Road, Birmingham, 6, and J. Chapman, 203 Balsall Heath Road, Birmingham, 12 (recommended). Estimated cost £9,000.

ELECTRICAL

Bury, Lancs.—Alterations to and new installation of the electrical services to the public abattoir extensions for B.C. Thomas R. Duckworth, architect, 30 St. James Street, Accrington—T. Tomlinson, Ltd., 119 The Rock, Bury.

Scunthorpe, Lincs.—Electrical installation for shops and flats at Healey Road for B.C.—F. R. Hammond, Grimsby, £1,140 (recommended).

Sheffield.—Internal wiring in connection with floodlighting of City Hall for City Council—Hall and Stimson, Ltd., 1 Washington Road, Sheffield, 11, £1,265 (recommended).

Wolverhampton, Staffs.—Following for B.C.: Electrical re-wiring of Penn Secondary School and St. Patrick's R.C. School—Midlands Electricity Board, Wolverhampton £2,133, and C. A. and W. J. Postings, Union Street, Wolverhampton, £1,099, respectively (subject to M.E. approval).

Electrical installations in flatlets for old people, Broadway, Bushbury—Midlands Electricity Board, £3,452; 58 dwellings at Essington Way and eight at Leacroft Avenue—Harvey's Electrical Service, 149 Horseley Heath, Tipton, £2,263; flats in Heathfield House—Newry Bros., 207 Penn Road, Wolverhampton, £870.

FENCING

Bexley, Kent.—Fencing works at Westwood estate children's playground for B.C.—Youngs of Orpington, Ltd., 211 High Street, Orpington, £515 (recommended).

Dukinfield, Ches.—Supply and erection of fencing to the front gardens of Clarendon Fields estate for B.C.—Durafencing (Northern), Ltd., 26 Wellington Road, Eccles, Lancs., £5,411 (recommended).

Scunthorpe, Lincs.—Fencing of car park at the baths for B.C.—R. Mendham and Son, Ltd., £715 (recommended).

GAS AND WATER SUPPLY

Bedfordshire.—Following for the Bedford-Kempston trunk main for the North Bedfordshire Water Board: (Contract A) Laying of approximately 4,250yd. of 18in. and 3,500yd. of 6in. bitumen sheathed spun-iron pipes with tyton joints, together with ancillary works—William Press and Son, Ltd., 22 Queen Anne's Gate, London, S.W.1, £19,256; (B) Crossing of the Bedford-Kettering main railway line by 18in. steel main to be thrust bored—Constructors John

Brown, Ltd., Eastbourne Terrace, London, W.2, £2,975; (C) Crossing of River Great Ouse by twin 15in. steel pipes to be laid under the river bed—W. A. Dawson, Ltd., Sundon Park Road, Luton, £6,381. Work to commence shortly.

Blackpool, Lancs.—Supply of following for roofing of Westby reservoir for Fylde Water Board: (1) Concrete plater and delivery pipes, etc.; (2) two mobile air compressors; (3) lifting gantry and gantry beam; (4) mesh reinforcement; (6) special steel shutters—(1) A. Gunn and Co., Ltd., Altrincham; (2) Brown and Tawse Plant, Ltd., Manchester; (3) Quayside Engineering Co., Ltd., Stockton-on-Tees; (4) Pashley and Trickett, Ltd., Sheffield; (6) Quayside Engineering Co., Ltd., Stockton-on-Tees.

Cookstown, Tyrone.—Construction of the following works near Lough Fea for R.D.C.: Filter house and chemical dosing house, settling tank, rapid gravity filter tanks and other reinforced concrete structures, ancillary pipelines, drainage works, roads, paths, etc. R. Ferguson and S. McIlveen, consulting engineers, 15 College Gardens, Belfast, 9—John Rainey (Construction), Ltd., Coleraine Road, Portrush, £56,260 (accepted); W. J. Crooks, £64,357; A. B. McCrea, £54,907; R. J. Pattison Nutt and Sons, Ltd., £79,955; White and Co., £109,838.

Great Yarmouth, Norfolk.—Replacement of pumping machinery at Alpha Road Pumping Station for B.C.—Tangyes, Ltd., 60 Grosvenor Street, London, W.1, £1,775 (recommended).

Malvern, Worcs.—Laying of approximately 2,500 lin. yd. of 6in. spun-iron water main, together with 750yd. of 4in. spun-iron main, together with a break pressure tank, and other ancillary works at Wyche-Evendine, Colwall, for U.D.C. C. C. Judson, surveyor and water engineer—P. J. Finneran and Co., Birmingham. Work commencing this month.

Peterborough.—Certain alterations and diversions to existing water mains in various parts of city for City Council—Biggs, Wall and Co. (Hitchin), Ltd., 130 Stevenage Road, Hitchin, £2,244 (recommended).

Poole, Dorset.—Construction of Pimperne and Moreton Village mains for Poole and East Dorset Water Board, comprising the excavating and backfilling and laying approximately 4,400yd. 6in., 3,400yd. 4in. and 3,100yd. of 3in. spun-iron or asbestos pipes with valves, fittings and other ap-

purtenant works—Cummings and Morrish, Ltd., 494 Wallisdown Road, Bournemouth, £8,326. Work commenced.

Sheffield.—Excavation work for proposed Hooper reservoir for City Council—Shepherd, Hill and Co., Ltd., 25 Central Chambers, Broadway, London, W.5, £22,088 (recommended).

Taunton, Som.—Staplegrave-Obridge link water main, or B.C., including the laying of approximately 2,100yd. of 15in., 12in. and 9in. diameter spun-iron pipes, with tyton joints. W. J. Wonnacott, engineer and manager—Harrow and Heales, Ltd., Clifton, Bristol, £10,584.

Widnes, Lancs.—Construction of sub-structure and superstructure to pumping station, total cubic content 220 cu. yd., and the laying of approximately 30yd. of 10in. diameter cast-iron rising main and incidental works, Ditchfield Road industrial site, for B.C.—John McGeogh and Sons, Ltd., Kirby Trading Estate, Kirby, Liverpool.

HEATING AND VENTILATING

Ashton-under-Lyne, Lancs.—Removal of the existing boiler, provision and fixing on a new base of a 12-k.l.r. Robin Hood low pressure hot water heating boiler and the necessary ancillary work, including re-fixing the stoker in the Market Hall for B.C.—Harry Taylor, Ebenezer Street, Ashton-under-Lyne, £920 (recommended).

Beebles, Suffolk.—Heating installation in Public Hall for B.C.—R. J. Pryce and Co., Ltd., Suffolk Road, Lowestoft, £629 (recommended).

Great Yarmouth, Norfolk.—Replacement of heating boilers in various schools for B.C.—P. T. Radmall, 201 Northgate Street, Great Yarmouth, £1,908 (recommended).

Scunthorpe, Lincs.—Heating and ventilating work at the baths for B.C.—Ashwell and Nesbit, Ltd., 32 Headingley Lane, Leeds, £20,547 (recommended).

Sheffield.—Mechanical services for High Storrs Grammar Schools extensions for City Council—Brightside Heating and Engineering Co., Ltd., Ecclesfield, £39,286 (recommended).

Southport, Lancs.—Installation of hot water systems and wash-hand basins in certain houses for the B.C.: 55 houses, Canning Road estate and 34 houses, Lytham Road estate—A. Emmett and Sons, Ltd., 149 Poulton Road, Southport, £6,501, and £3,918, respectively; 39 houses, Shaftesbury

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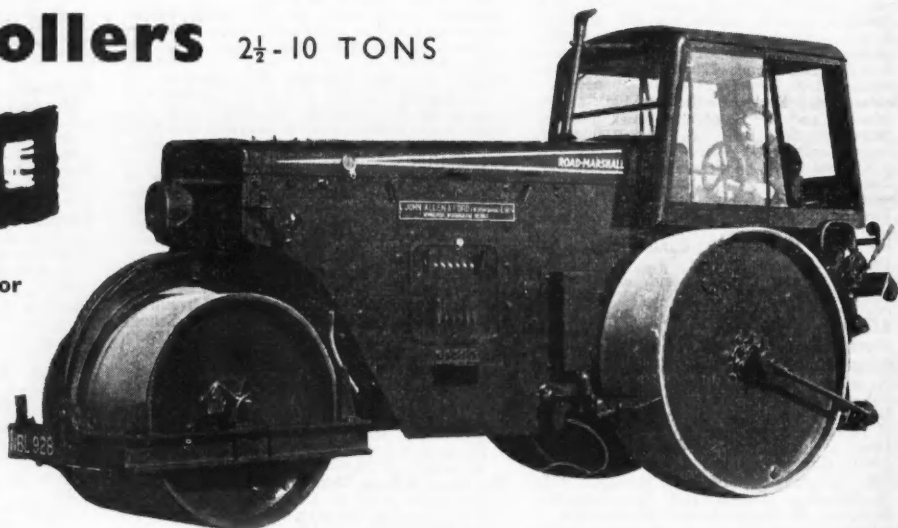
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Road/Shafesbury Avenue estate, and 59 houses, Essex Road estate—J. A. Brooks (Southport), 39 Tithebarn Road, Southport, £4,946 and £7,464, respectively; 11 houses, Shaws Road/Shaws Avenue estate R. Tasker, 8 Botanic Road, Southport, £1,319; 82 houses, Guildford Road/Central Avenue estate—K. Blundell, 32 Forest Road, Southport, £7,268 (recommended, subject to Ministry approval).

Stoke-on-Trent, Staffs.—Installation of two heating boilers and pumps at Wedgwood Institute, Burslem, for City Council—A. Gillam and Son, 4 Wood Street, Longdon, Stoke-on-Trent, £711 (recommended).

Wolverhampton, Staffs.—Replacement of heating boilers at various schools and installation of automatic stokers at Oldfallings Secondary and Junior Schools for B.C.—D. Wiseman and Bros., Ltd., Showell Road, Wolverhampton, £1,352, and J. Bigwood and Son, Ltd., Wednesfield Road, Wolverhampton, £930, respectively (subject to M.E. approval).

HOUSING SCHEMES

Barley, Yorks.—Ten bungalows on the Howden Clough housing estate for B.C.—Direct Labour, £11,450.

Birmingham.—Following for City Council. A. G. Sheppard-Fidler, city architect: Seventy-eight dwellings and 29 garages at Calthorpe Park development area (contract 755B)—Direct Labour, £208,116; 11 dwellings and 14 garages at Adams Hill, Bartley Green (contract 725)—J. Harris and Son (Builders), 157-158 New John Street, Blackheath, Birmingham, £266,549; 17 aged persons' bungalows and five garages at Ley Hill estate (contract 743)—Gilligan Bros., 765 Shirley Road, Hall Green, Birmingham, 28, £32,786.

Brentwood, Essex.—Thirteen, houses, 14 flats and 22 garages at Hutton Drive, Hutton, for U.D.C. J. L. Barnard of L. D. Tomlinson and Partners, architect, Quadrant Arcade, Romford—Carlton Contractors, Ltd., Carlton House, Epsom, £127,887 (accepted); Arthur J. Arnold (Chelmsford), Ltd., £134,933; Allen Fairhead and Sons, Ltd., £140,892; K. A. Halfhide and Sons, Ltd., £135,972; H. G. Puley (Shenfield), Ltd., £145,265; Thomas McInerney and Sons, Ltd., £155,784; Coward (Contractors), Ltd., £141,300; A. and C. Barvis, Ltd., £153,268; S. Cronin and Sons, Ltd.,

£136,183; Hammond and Miles, Ltd., £134,208; West and Evans, Ltd., £128,182.

Bridgend, Glam.—Twenty-three Homeville traditional houses and flats at Brackla North site for U.D.C.—D. P. David (Contracts), Ltd., 13 Adare Street, Bridgend.

Bridlington, Yorks.—Erection of bungalows at Bempton and houses at Hunmanby for R.D.C.—Waud Bros., Flamborough, £2,660, and Maw Bros., Cayton, £4,210, respectively.

Brownhills, Staffs.—Eighty houses and eight bungalows for U.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.

Chancionbury, Sussex.—Twelve old people's bed-sittingroom flats and eight one-bedroom flats with communal room, caretaker's quarters and boiler room at Thakeham Road, Sullington, for R.D.C.—F. S. Vickery, Washington, Pulborough, £32,192.

Cheltenham, Glos.—Seventy-four No-fines flats, with roads and services, outbuildings and garages, at Arle House development site for B.C.—G. Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £152,644 (recommended negotiated tender, subject to Ministry approval).

Dewsbury, Yorks.—Three blocks of four flats on the Whitley housing site for B.C.—Harlow and Milner, Ltd., Warrigate, Wakefield, £20,263 (recommended, subject to Ministry approval).

Epping and Ongar, Essex.—Thirty-one Homeville traditional houses and bungalows at Shelley for R.D.C.—Coward (Contractors), Ltd., 101 Lower Anchor Street, Chelmsford.

Felling, Dur.—Twenty bungalows, 21 garages, near Langrigg, for U.D.C.—Direct Labour (recommended, subject to Ministry approval).

Forres, Moray.—Twelve three-apartment and six single-apartment houses and five garages at Castlehill (East) for B.C.—Wm. Arnott M'Leod and Co., Ltd., Elgin, £39,204.

Great Yarmouth, Norfolk.—Fourteen flats, seven maisonnettes and 10 garages at Yarmouth Way for B.C.—H. A. Holmes and Sons, Ltd., South Ice Hill, Gorleston, Great Yarmouth, £40,346 (recommended, subject to Ministry approval).

Haverfordwest, Pems.—Following for R.D.C.: Four bungalows and site works at Burton (2 site)—John Bros., Stratford Road, Milford Haven, £6,083; two bungalows and site works at Mathry (7)—Doolin and

Turner, Goodlick, £3,577; six bungalows and site works at Hook (3)—W. Warlow and Son, Sunny Bank, Hook, Haverfordwest, £9,435; six bungalows and site works at Trecwn (4)—Davies Bros. and Lewis, Ltd., 10 Maes Ewan, Solva, £9,776.

Holderness, Yorks.—Eight flats at Burstwick for R.D.C.—Taylor and Huntsman, Back Lane, Seaton, Hull, £14,515.

Maltby, Yorks.—Twenty-three bungalows and a warden's house at Cross Street off Manor Road for U.D.C.—C. Mollekin, Ltd., Manor Buildings, Braithwell Road, Maltby £33,476 (recommended).

Malvern, Worcs.—Eighteen pairs of traditional houses at Beauchamp Road, Malvern Link, and one pair of traditional houses at the junction of Bosbury Road and Jamaica Road for U.D.C. C. C. Judson, surveyor and water engineer—Martin Wilesmith (Contractors), Ltd., Malvern Link, Worcs. (recommended).

Market Harborough, Leics.—Nine bungalows, eight flats and four houses for R.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.

Neyland, Pems.—Following for U.D.C.: Demolition of 55 to 59 Charles Street and erection on site of 20 bungalows—Phelps and Owen, Priory Road, Milford Haven, £26,551; three bungalows at Honeyborough and six dwellings at Neyland Promenade site—Phillips and Marren, Ltd., 3 New Road, Haverfordwest, £4,587 and £12,517, respectively.

Oakham, Rutland.—Forty-eight houses and 26 garages and road sewer works at Woodland View site, Burley Road, for U.D.C. F. J. Lenton and Partners, 16 Broad Street, Stamford—Morton Potter, Ltd., Barkly Road, Leicester, £87,820 (recommended); Sheriff and Co., £109,247; E. Clarke and Sons, £100,366; Wheeler and Wright, £98,575.

Pershore, Worcs.—Six bungalows, together with roadworks, etc., Upton Snodsbury, and six bungalows, together with sewers, sewage disposal works, etc., at Peopleton for R.D.C. Pemberton and Bateman, architects, Evesham—R. H. Wilkes and Sons, Ltd., Astwood Bank, Redditch, £11,239.

Peterborough.—Following for City Council: Crown Street housing estate extension—10 houses (group 6)—J. Bentley, 21 High Street, Eye, £14,288; 18 (group 7), eight (group 8), six houses and nine garages

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(group 9) and eight houses (group 10)—S. B. Fairchild and Sons, Ltd., 11 Welland Road, Peterborough, £26,083, £11,893, £9,668 and £12,228, respectively; 10 (group 11)—H. J. Firman, Ltd., Flag Fen, Newark Street, Peterborough, £16,020 (recommended).

Sixteen old people's flats at Oundle Road site—J. Bentley, £27,258 (recommended, subject to Ministry approval).

Pocklington, Yorks.—Sixteen flats, 14 bungalows for R.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.

Rowley Regis, Staffs.—Eighty-four houses and 53 garages at Bury Hill estate for B.C.—Direct Labour (recommended). Estimated cost £121,500.

Rushden, Northants.—Four flats and two garages at Rose Avenue for U.D.C. W. J. Anker, engineer and surveyor—J. A. Bishop, Grafton Road, Rushden, £6,362.

Sheffield.—Two dwellings, garage and an external store on land at Sheephill Road, Ringinglow, for City Council—Wilson and Middleton, 101 Leigh Street, Sheffield, 9, £6,074 (recommended, subject to Ministry approval).

Stoke-on-Trent, Staffs.—Ninety-three dwellings (group 3) at Holden Lane estate, Sneyd Green, and 113 (group 2) at Longton Hall Road estate, Longton, for City Council—Direct Labour, £150,506 and £179,982, respectively.

Tamworth, Staffs.—Forty houses and 10 bungalows for R.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.

Ulverston, Lancs.—Eighteen houses, 11 garages and incidental road works at Croftlands for U.D.C.—Baker and Foster (1960), Ltd., 2 Upper Brook Street, Ulverston, £35,087 (subject to Ministry approval).

Winchester.—Four blocks of eight-storey flats, with 67 garages, at Winnall Manor estate for City Council—Wates, Ltd., 1258 London Road, London, S.W.16, £395,848.

Winslow, Bucks.—Three pairs of old people's bungalows at Stewkley for R.D.C. J. H. Cox, architect, 12 Rickford Hill, Temple Square, Aylesbury—F. W. Grace and Sons, Stewkley, Beds., £8,762 (accepted); A. G. Robinson, £9,675; Green and Coady, Ltd., £10,794. Work expected to commence in Oct.

Ystradgynlais, Brecons.—Forty houses on the James Street housing site for R.D.C. W. Edgar Evans, engineer and surveyor—T. J. Williams and Sons, Gurnos Yard, Lower Cwmwrch, Swansea, Glam., £93,537 (subject to Ministry approval).

MATERIALS AND SUPPLIES

Peterborough.—Supply of a building for use as a pavilion at the River Embankment running track for City Council—Vic Hallam, Ltd., Valley Works, Langley Mill, Nottingham (recommended).

Rowley Regis, Staffs.—Supply of asbestos roofing for 58 garages to be erected on various sites in the borough for B.C.—Walsh Graham, Ltd., Perry Street, Wednesbury—corrugated asbestos-cement sheeting, £6 14s. 3d. per square; eaves filler pieces, 2s. 3d. per foot run; bedding sheeting, 9d. per foot run (recommended).

Wolverhampton, Staffs.—Supply of flag signs for B.C.—Franco Traffic Signs, Ltd., 587 Warwick Road, Acocks Green, Wolverhampton, £595.

MISCELLANEOUS

Hereford.—Supply and installation of grit arrester plant at the refuse destructor for City Council—Pratt Daniels (Stroud), Ltd., Stroud, £3,775 (recommended).

Sheffield.—Supply of Minivil units and Minidoors for the meat hanging room at the public abattoir for City Council—Bradley and Lomas (Refrigeration), Ltd., 175 Ecclesall Road, Sheffield, 11, £1,367 (recommended).

Stourbridge, Worcs.—Supply and installation of shelving at the Central Library for B.C.—Ray Westwood (Lye), Ltd., Providence Street, Lye, Stourbridge, £1,050 (recommended).

PLANT AND MECHANICAL TRANSPORT

Bexley, Kent.—Tarpaving works, etc., at schools within the borough during 1961-62 for B.C.—P. A. Barden and Sons, Ltd., Weaving House, Ashford Road, Maidstone (recommended).

Deal, Kent.—Supply of an s. and d. 16-18 cu. yd. fore and aft tipper for B.C.—Shelvoke and Drewry, Ltd., Letchworth, Herts., £2,711 (recommended, subject to Ministry approval).

Great Yarmouth, Norfolk.—Supply of a new fire appliance vehicle for B.C.—J. H. Jennings and Sons, Ltd., Crewe Road, Sandbach, Ches., £2,735 (recommended).

Ipswich, Suffolk.—Supply of a 30cwt. footpath roller for B.C.—Aveling-Barford, Ltd., Grantham, £1,139.

Morley, Yorks.—Supply of one A.30 5cwt. van for B.C.—Whealey and Whiteley, Leeds (recommended).

Sheffield.—Supply of following for City Council: Morris 25-30cwt. van—Kennings, Ltd., Leadmill Road, Sheffield, 1, £778; water tender—David Haydon, Ltd., £3,594; 35 steel side-tipping wagons—Chas. Roberts and Co., Ltd., Rotherham, £33,425 (all recommended).

Swaffham, Norfolk.—Supply of a new 800-gallon cesspool emptier for R.D.C.—F. Sillett, King's Lynn, £1,441.

Weymouth, Dorset.—Supply of one special refuse control machine for B.C.—Power AG., Ltd., Hinton Martell, Wimborne.

PLAYING FIELDS, PARKS, ETC.

Ipswich, Suffolk.—Preparatory works (including fencing and drainage) at Castle Hill Junior and Infants' School Playing Fields for B.C.—Direct Labour (subject to M.E. approval). Estimated cost: £2,950.

Reading, Berks.—Construction of a playing field (for Alfred Sutton Secondary Schools and Primary School) at Oliver Dixon Field for B.C.—G. S. Daniels 387 Winchester Road, Southampton, £10,672 (recommended).

Sheffield.—Stage 1 development at Mather Road open space for City Council—J. W. Horton (Contractors), Ltd., 88 Saville Street, Sheffield, 4, £8,812 (recommended).

Wednesbury, Staffs.—Following for B.C.: Soiling and seeding of the open space at Pine Avenue—C. Powell (Gardens), Ltd., 113 Sandwell Road, Birmingham, 21, £1,559; extension of Hydes Road playing fields—Midland Gardens, Ltd., 68 Bath Road, Wolverhampton, £7,632 (recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed: Eastern Region:

Resurfacing of bridge roadways in the Sheffield district—Tarmac Civil Engineering, Ltd., Upper Wortley Road, Rotherham.

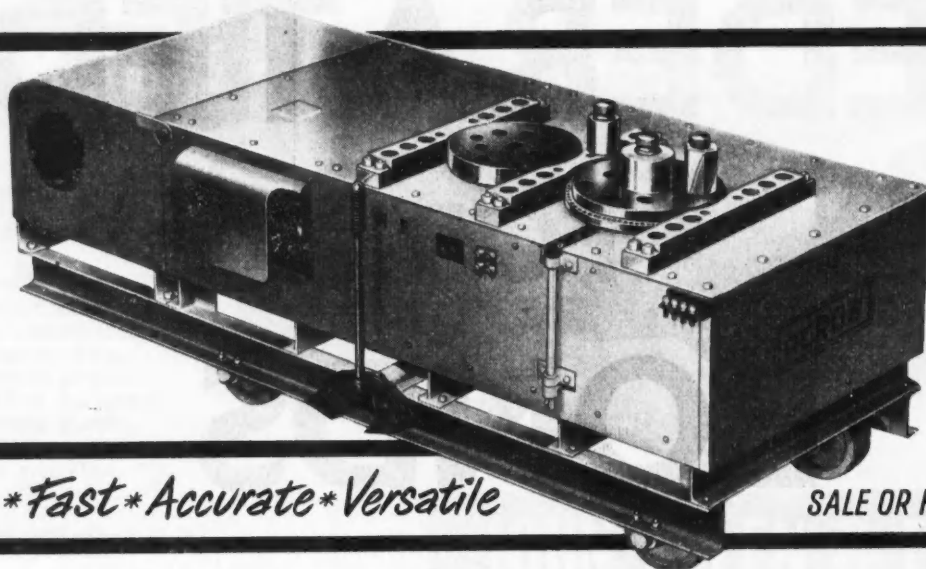
Cleaning and painting of Locomotive Works Manager's Offices, carriage and wagon workshops and certain other buildings at Doncaster—Wm. Latimer and Co., Ltd., 10 Archbold Terrace, Newcastle upon Tyne, 2.

Reconstruction of superstructure of underline bridge 465 between Darsham and Halesworth—The Butterley Co., Ltd., Butterley, near Derby.

Overhaul of four wharf cranes at Bow Creek—Felco-Moore Maintenance Engi-

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neers, Ltd., 117 Poplar High Street, London, E.14.

Construction of new locomotive inspection pits at Doncaster Locomotive Works—Wellerman Bros., Ltd., Dun Street, Sheffield, 3.

Strengthening of portion of superstructure of underline bridge 146 between Offord and Huntingdon (North)—Wellerman Bros., Ltd., Dun Street, Sheffield, 3.

Reconstruction of underline bridge 28 between Staveley (Central) and Heath—Thomas Fletcher and Co., Ltd., Forest Road, Mansfield, Notts.

Provision of thermal insulation to offices and stores at Doncaster Locomotive Works—J. Rata and Co., Ltd., 247 Chapter Road, Willesden, London, N.W.2.

Provision and erection of new crane girders to take a 30-ton crane in the Crimpsall Machine Bay E.3 at Doncaster Locomotive Works—The Butterley Co., Ltd., Constructional Department, Engineering Works, Butterley, near Derby.

Scottish Region:

Installation of yard lighting and electrical distribution at Millerhill Marshalling Yard—James Kilpatrick and Son, Ltd., Paisley.

Reconstruction of underbridge 10, on Carlisle-Glasgow trunk road—James Anderson and King Ltd., Glasgow.

Provision of private automatic branch exchange at Sighthill Freight Terminal—Reliance Telephone Co., Ltd., Glasgow.

Supply of precast concrete units for underbridge 113 at Hurlford—The Scottish Construction Co., Ltd., Edinburgh.

Reconstruction of overbridge 26 between Uddington and Motherwell—James Sim, Ltd., Glasgow.

RIVER AND FLOOD PREVENTION WORKS

Wimbledon, Surrey.—Improvement of the River Wandle within the borough, comprising widening, deepening and straightening channel, constructing weirs, reinforced concrete and masonry retaining walls, etc., for C.C.—Aubrey Watson, Ltd., Henley-on-Thames.

ROADS, BRIDGES AND SITE WORKS

Bridgwater, Som.—Straightening of Salmon Lane for B.C.—Mactrac, Ltd., Canada House, Chepstow Street, Manchester, 1, £25,777.

Canterbury, Kent.—Construction of the A.2 diversion and ring road for City Council—Cementation Co., Ltd., 20 Albert Embankment, London, S.E.11, £584,913.

Cheltenham, Glos.—Layout of St. Georges Road car park for B.C.—M. H. Taylor (Civil Engineers), Ltd., 54 Broad Street, Worcester, £3,075 (recommended).

Chertsey, Middx.—Resurfacing of carriageway, and other incidental works at Brackendene caravan park for U.D.C.—W. and J. Glossop, Ltd., 123 East Hill, Wandsworth, £2,078 (accepted); Surrey Bituminous, Ltd., £2,448; Roads Reconstruction, £2,696; William F. Rees, Ltd., £2,731; L. W. Brown and Son, Ltd., £2,936; Sportswork, Ltd., £3,385; Waywarden, Ltd., £3,599; S.E.C., £3,485.

Cowdenbeath, Fife.—Site servicing of 70 houses, gap sites for B.C.—Alex. Robertson and Co., Ltd., Craigluscar Road, Dunfermline, £6,254.

Epping and Ongar, Essex.—Road, footpath, surface water sewers and ancillary works at the Light Industrial Estate, Hallsford Bridge, for R.D.C.—Raymond L. Luck,

engineer and surveyor—Appleton and Son, Elmsleigh Drive, Leigh-on-Sea, £6,556.

Fifehire.—Improvement to Drumrack Crossroads for C.C.—Alex. Robertson and Co., Ltd., Dunfermline, £5,519.

Gravesend, Kent.—Making-up of Orchard Avenue and Brenchley Avenue for B.C.—Mowlem (Civil Engineering), Ltd., 91 Ebury Bridge Road, London, S.W.1.

Gravesend, Kent.—Cold bitumen spraying and gravel chip dressing drives at the golf house for the Mid-Kent Golf Club, Ltd.—Hodsons, Ltd., 17 Wrotham Road, Gravesend.

Guiseborough, Yorks.—Construction of further roadworks at Hutton Lane for U.D.C. A. T. Pallister, surveyor—Lonsdale (Tees-side), Ltd., Ross Road, Stockton-on-Tees.

Hatfield, Herts.—Construction of bitumen macadam carriageway and erection of chain-link fencing, etc., at Chelwood Avenue service road, and making-up Moffatts Lane for R.D.C. W. J. Davis, engineer and surveyor—Gates Brothers, Ltd., 107 Rye Road, Hoddesdon, £1,003; and Alfred Robinson (Builders and Contractors), Ltd., Hillingdon House, 386-388 Kenon Road, Kenton, Harrow, Middx., £18,261, respectively.

Hereford.—Reconstruction of the access road and bridge to the sewage disposal works for City Council—Asphalt and Public Works, Ltd., Worcester, £5,917 (recommended).

Ipswich, Suffolk.—Provision of a temporary car park adjoining Princes Street for B.C.—Direct Labour. Estimated cost £1,850.

Kearsley, Lancs.—Supplying and laying approximately 7,000 sq. yd. of asphalt regulating course and lin. hot-rolled asphalt surfacing by mechanical spreader on Stoneclough Road (A.667), Kearsley, for U.D.C. C. Greaves, surveyor—Asphaltic Roadways, Ltd., Pendleton, Salford, 6.

Kilkeel, Down.—Surface tarring approximately 6,606 super. yd. of carriageways and other ancillary works for U.D.C.—Aughrim Quarries, Aughrim, Kilkeel, Newry, Co. Down, £756.

Knaresborough, Yorks.—Resurfacing of the Market Place for U.D.C.—Tarmac, Ltd., Ettingshall, Wolverhampton, £1,251 (recommended).

Leicestershire.—Making-up of (a) Glenfield Crescent, Glenfield; and (b) Braunstone Close, Braunstone, for C.C. R. W. Gregson, county surveyor—Clayton Bros., Ltd., Hathern, Loughborough, (a) £1,650, and (b) £2,500. (a) Work commenced.

Leyton, Essex.—Improvement of Skeltons Lane for B.C.—H. V. Smith and Co., Ltd., Walkden House, 3-10 Melton Street, London, N.W.1 (recommended).

Longridge, Lancs.—Making-up two streets, totalling 161 yd. length, with bituminous macadam carriageways, footpaths and drainage for U.D.C. T. P. Johnstone, engineer—Hammond, Heaton and Co., Ltd., Cowley Road, Marton, near Blackpool, £2,686. Work commencing Sept.

Lytham St. Annes, Lancs.—Following private street works for B.C.: Allenby Road (part of)—Anderson and Moss, Ltd., 36 Commonsides, Ansdell, Lytham; Edwinstowe Road (part of)—Thomas Waldron, 197 Blackpool Old Road, Poulton-le-Fylde; Beauclerk Road (part of) and Avondale Road and Wyredale Road (part of)—Hammond Heaton and Co., Ltd., Cowley Road, Blackpool; Clarendon Road North (part of)—P. Levins, 6a West Crescent, St. Annes; Weeton Avenue—J. B. Kelly, St. Annes.

Monaghan and Tyrone.—Erection of a 60ft. span Bailey bridge across the River Moy near Aughnacloy for C.C.s.—Collen Bros. (Dublin), Ltd., East Wall, Dublin.

Pontypool, Mon.—Completion of roads and footpaths at Kemys Fawn, phase II housing, Green Lawn private development site, and Trevethin Lawn private development site for U.D.C.—J. F. Dymond, 30 High Street, Newport, £24,427.

Pontypridd, Glam.—Widening and improvement of Rhonda Road, route A.4058 from Distillery Road to Gyfeillon Gardens, Hopkinstown, for U.D.C. C. B. Jones, engineer and surveyor—Davies, Middleton and Davies, Ltd., Phoenix Works, Caerphilly Road, Cardiff (subject to Ministry approval).

Rhayader, Radnors.—Site works at Crossgates, Llanyre and Pantydwr for R.D.C.—Rhay Roads, Ltd., Bank Chambers, East Street, Rhayader, £14,410.

Rowley Regis, Staffs.—Resurfacing of Oldbury Road and Halesowen Street, Blackheath, for B.C.—Road Surfacing Co., Ltd., 241 Hagley Road, Birmingham, 16, £3,797 (recommended).

Rushden, Northants.—Following for U.D.C. W. J. Anker, engineer and surveyor—Improvement of part of Duck Street and the construction of a car park—W. Squires, Wellingborough, £7,624; works at Grafton Road involving approximately 1,100 sq. yd. of slab paving, etc., and 175 sq. yd. of roadworks—W. Squires, Wellingborough, £2,032.

Rugby, War.—Reconstruction of Alwyn Road for B.C.—Asphalt and Public Works, Ltd., Worcester, £23,351 (recommended).

Sheffield.—Heating and planing approximately 20,000 sq. yd. of road surfacing during current financial year for City Council—East Anglian Roadstone and Transport Co., Ltd., 66 Bracondale, Norwich (recommended, extension of contract).

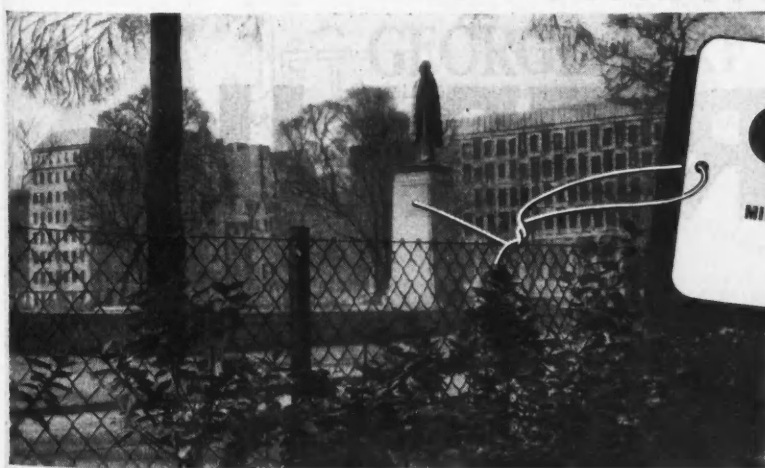
Shoreham-by-Sea, Sussex.—Making-up of Ravensbourne Avenue, Shingle Road and Crown Road for U.D.C.—E. Jenkins and Sons (Ferring), Ltd., Little Hampton Road, Ferring, Worthing, £4,020, £6,381 and £1,571, respectively.

Southend-on-Sea, Essex.—Construction of paved playground at St. Bernard's Convent High School for Girls for B.C. P. F. Burridge, borough architect—Val de Travers Asphalt, Ltd., Val de Travers House, 21-22 Old Bailey, London, E.C.4, £1,934 (accepted); J. Thornback and Sons, Ltd., £2,108; Constable Hart and Co., £2,003. Work about to commence.

Southport, Lancs.—Second stage of roadworks from Sandbrook Road Junction to Meadow House Farm Bridge for B.C.—Direct Labour (recommended, subject to Ministry approval). Estimated cost £14,352.

Staffordshire.—Reconstruction and widening of a section of the Rugeley-Lichfield road, A.51, from a point 1,000ft. north of Ashmoor Brook to the northern end of the new Lichfield relief road at Lyncroft for C.C. The work will include the construction of a roundabout at Constitution Fork, and regrading of route A.515 (Lichfield-Sudbury road) for 800ft. F. Jepson, county surveyor—Martin Cowley, Ltd., Clay Cross, Derbys. Work commencing shortly.

Swadlincote, Derbys.—Advance preparation works on stage II of the Abbotts Farm housing estate, Newhall for U.D.C. J. W.



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May, engineer—Peter Robinson and Co. (Engineering), Ltd., Belfield Road, Etwell, Derby, £7,026.

Wednesbury, Staffs.—Asphalt surfacing of Darlaston Road, Walsall Road and Walsall Street for B.C.—Limmer and Trinidad Lake Asphalt Co., Ltd., Trinidad House, Coventry Street, Birmingham, 5, £973, £1,409 and £1,192, respectively (recommended).

Wem, Salop.—Resurfacing of the road and footpath, re-laying kerbs and edging at Windmill Gardens housing site, Whixall, for R.D.C. C. H. Jeffery, surveyor—J. H. Parry and Sons, The Oaks, Shawbury Heath, Astley, Shrewsbury, £650 (accepted); Buttington Road Rolling Co., £968; Wrekin Construction, Ltd., £800; F. Owen, £1,120.

Weymouth, Dorset.—Renewal of decking on the southern end of the Town Bridge for B.C.; provision and laying of wood block paving—The Acme Flooring and Paving Co. (1904), Ltd., River Road, Barking, Essex; timber decking—Mallison and Eckersley, Ltd.; bolts, nuts, etc.—Webb, Major and Co., Ltd., Commercial Road, Weymouth. Total estimated cost £4,000 (recommended).

Wigan, Lancs.—Road and sewer works at Tunstall Lane, Pemberton, for B.C.—Direct Labour, £13,920.

Wolverhampton, Staffs.—Construction of footpaths at the Vauxhalls estate for B.C. Garden Construction Co., Standeford Nurseries, Standeford, Wolverhampton, £2,321.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bedale, Yorks.—Proposed Thornton Watless sewerage scheme for R.D.C. W. K. Rodwell, consulting engineer, 40 North Street, Wetherby—Lingard (Builders), Ltd., 24 Stockwell Road, Knaresborough, Yorkshire, £6,648.

Bexley, Kent.—Construction of a surface water sewer in the Lion Road area for B.C.—J. Murphy and Sons, Ltd., 43 Charter's Road, London, N.14, £17,764 (recommended).

Boston, Lincs.—Sewerage of Leverton for R.D.C., comprising the laying of approximately one mile of 6in. diameter concrete sewers and half-mile of 5in. and 4in. dia-

meter asbestos-cement rising mains, and the construction of two pumping stations and a sewage disposal works. Binnie, Deacon and Gourley, consulting engineers, Artillery House, Artillery Row, Westminster, S.W.1—Stimpson and Rollston, Ltd., West Avenue, Wigston, Leicester, £45,427 subject to Ministry approval).

Bridgwater, Som.—Construction of a new outfall from British Cellophane, Ltd., factory into the River Parret—Reed and Mallik, Ltd., Milford Manor, Salisbury, £22,745.

Chanctonbury, Sussex.—Construction of sewers in the Melton Drive area of Sullington for R.D.C.—William Old, Ltd., Harrow, Middx. Estimated cost £4,000.

Chard, Som.—Broadway sewerage and sewage disposal scheme, for R.D.C., comprising the construction of about 7,090 lin. yd. of 9in. and 6in. sewers, together with 88 manholes and a new sewage disposal plant with tanks, filters, drying beds, and all ancillary works, at Broadway, near Ilminster. Harvey McGill and Hayes, consulting engineers, 38 Market Place, Chippenham, Wilts.—W. Coombes and Sons, Newlands, Ilminster, £49,996 (subject to Ministry approval).

Colne Valley, Yorks.—Surface water drainage works at Colne Valley High School for West Riding E.C. — J.K. Construction, Ltd., Huddersfield (recommended). Estimated cost £26,000.

Dewsbury, Yorks.—Supply of mechanical dewatering equipment for 11 primary sedimentation tanks at the Mitchell Laithes sewage disposal works for B.C.—Robert Hudson, Ltd., Raletux House, Meadow Lane, Leeds, 11 (recommended). Estimated cost £3,300.

Hereford.—Following at the sewage disposal works for City Council: Replacement of filter arms on 10 filter sets—Ames Crosta Mills and Co., Ltd., Heywood, Lancs., £1,690; supply and fixing of 14 constant speed motors to filter arms—Hartleys (Stoke-on-Trent), Ltd., Stoke-on-Trent, £6,384; replacement of two existing sludge pumps—Mono Pumps, Ltd., Birmingham, 1, £557 (recommended).

Hinckley, Leics.—Construction of a sewage pumping station and the laying of approximately 1,000 lin. yd. of cast-iron

rising main at Coventry Road industrial development site, contract 2, for U.D.C.—The Barber Construction Co., Ltd., Shilton Road, Barwell, Leicester. Work commencing September.

Kerrier, Corn.—Constantine sewerage and sewage disposal scheme for R.D.C., comprising the laying of approximately 6,125 lin. yd. of 9in., 6in. and 4in. diameter sewers and rising mains, together with concrete manholes, the construction of two pumping stations and sewage disposal works, and all ancillary works at Constantine, near Falmouth. Harvey, McGill and Hayes, consulting engineers, 8 Richmond Road, Exeter—E. Thomas and Co., Ltd., 31 Kings Avenue, Falmouth, £71,247. Work to commence September.

Lytham St. Annes, Lancs.—Provision and laying of a surface water sewer and reconstruction of footpath on south side of Squires Gate Lane between Lytham Road and St. Annes Road for B.C.—T. Waldron, 197 Blackpool Old Road, Poulton-le-Fylde (recommended).

Sheffield.—Supply of following for Blackburn Meadows sewage disposal works reconstruction and extension scheme for City Council: one 25-h.p. variable speed motor with induction regulator and starter—Laurence Scott and Electromotors, Ltd., Norwich Union Buildings, City Square, Leeds, 1, £738; one 9in./6in. disintegrator sludge pump—Pulsometer Engineering Co., Ltd., 39 Victoria Street, London, S.W.1, £670 (recommended).

Startforth, Yorks.—Barningham sewerage and sewage disposal works for R.D.C., including the laying of approximately 1,640 lin. yd. of 6in. sewer, together with manholes and house connections, and the construction of a sewage disposal works for a population of 250. Fairbank and Son, consulting engineers, 29 St. Mary's Bootham, York—P. A. Baines and Son (Northern), Ltd., Culgaith, Cumberland, £15,782 (accepted); R. L. Wade and Sons, £17,555; G. Stephenson, Ltd., £18,610; Squire W. Swift, Ltd., £18,881; Minster Plant Hire Co., £20,661.

Swinton and Pendlebury, Lancs.—Construction of Agecroft Road sewer for B.C.—A. C. Brew, Ltd., Irlam, £13,691 (recommended).

West Bridgford, Notts.—Construction of surface water drain and replacement of a brick culvert, Wilford Lane, for U.D.C.

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MOBILE UNITS

R. Dewberry, engineer and surveyor—J. Swinger and Co., Swinton House, Normanton Lane, Keyworth, Nottingham, £1,755.

West Bromwich, Staffs.—Restoration of moat and foul water drainage at the Old Hall for B.C.—Direct Labour (recommended). Estimated cost £2,668.

STREET LIGHTING

Leyton, Essex.—Supply of (a) Golden Ray, mark III, and Ware, mark II, 80-W mercury/fluorescent lanterns and (b) lamps and control gear for B.C.—(a) Electro, Ltd., Sphere Works, St. Albans, Herts., £643, and (b) Stella Lamp Co., Ltd., 158 Shaftesbury Avenue, London, W.C.2, £797 (recommended).

Ramsbottom, Lancs.—Installation of class A sodium lighting (20 columns) in Blackburn Road for U.D.C. E. M. Richardson, engineer and surveyor—Concrete Utilities, Ltd., 11 Albert Square, Manchester, 2. Work commencing September.

West Bromwich, Staffs.—Improved lighting at junction of Crankhall Lane and Friar Park Road for B.C.—Revo Electric Co., Ltd., Tipton, £749 (recommended).

Whitby, Yorks.—Supply and erection of 131 group A columns with 250-watt lanterns for U.D.C.—General Electric Co., Newcastle upon Tyne.

Woking, Surrey.—Installation of a further stage of improved street lighting for U.D.C.—General Electric Co., £12,517.

Wolverhampton, Staffs.—Following for the improvement of street lighting in various roads for B.C.: Lanterns and control gear—Revo Electric Co., Ltd., Tipton, £8,166; laying and connecting service cables—Midlands Electricity Board; time switches—Sangamo Weston, Ltd., 39 Carrs Lane, Birmingham, 4, £440.

GOVERNMENT CONTRACTS

Admiralty.—Particulars of contracts over £4,000 in value placed by Navy Works Department:

Northern Ireland: conversion of accommodation—J. and H. E. Docherty, Ltd., Coleraine, Northern Ireland.

Air Ministry.—Contracts to the value of £4,000 or over for the two weeks ended Aug. 11:

Building work: Hereford—Lavender McMillan (Contractors), Ltd., Worcester Park, Surrey; Medmenham, Bucks.—Jones (Builders), Ltd., Slough, Bucks.; Scampton, Lincs.—A. Richmond and Sons, Ltd., Retford, Notts.; Gaydon, Lincs.—Bosworth Wakeford and Stepnell, Ltd., Rugby, War.; North Coates, Lincs.—R. M. Phillips and Son, Ltd., Briggs, Lincs.; Benson, Oxford—Thomas Lowe and Sons, Ltd., Hammersmith, London, W.6.

Artificers' work: Greatworth, Oxon—Lewis and Watters, Ltd., Leamington Spa, War.; Farningley, Yorks.—J. Mather and Son, Ltd., Stoneferry, Hull; Aberporth, Cards.—W. and A. Davies, Ltd.,

Pontypool, Mon.; Woodbridge, Suffolk and Bentwaters (Suffolk), etc.—Thomas C. Stewart (Contractors), Ltd., Bury St. Edmunds, Suffolk; Lakenheath (Suffolk), etc.—Walter Lawrence and Son, Ltd., Swaffham, Norfolk.

Low pressure heating installation: Cosford, Wolverhampton, Staffs.—David Peters (Heating Engineers), Ltd., Rodney Street, Liverpool, 1.

Metropolitan Police.—Recent contracts placed include:

External painting, minor repairs and part internal redecoration—Harriott House, Jamaica Street, E.1—Geo. Butters and Sons, £5,598.

Ministry of Works.—Contracts placed for week ended Aug. 5:

(Angus) Forfar: Longton Road, Milton of Craigie, Dundee—erection of telephone exchange centre—Robert McNeil (Builders), Ltd., 2 Paterson Street, Dundee.

Ayrshire: War Department Storage Depot, Bowhouse, Kilmarnock—external and internal painting—H. R. Dumigan and Co., 41 Grange Street, Kilmarnock.

Berkshire: Broadmoor Hospital, Crowthorne—demolition of boundary wall—Clayton Heath, Ltd., Boyn Works, Maidenhead.

Heanor, Derby. Post Office telephone exchange—William Wood (Heanor), Ltd., 2 Fletcher Street, Heanor, Derby.

Dorsetshire: Wimborne—erection of telephone exchange—G. P. Burt, Ltd., East End, Corfe Mullen, Wimborne.

Essex: Telephone Exchange Ilford—builder's works for lift—Field-Davis, Ltd., 683 High Road, Finchley, London, N.12; Clacton—erection of motor transport workshop—G. C. Hammond, Ltd., 6 Station Road, Clacton-on-Sea.

Lanarkshire: Department of Scientific and Industrial Research, East Kilbride—installation of boiler—Cochrane and Co. (Annan), Ltd., Newbie Works, Annan; Post Office Garage, Finnieston Street, Glasgow—re-covering roof—Vulcanite, Ltd., 1157 Gallowgate, Glasgow, E.1.

Lancashire: Automatic Telephone Exchange, Woolton Park, Gateacre, Liverpool—extension and alterations—Hibberts (Builders), Ltd., 103 Rochbank Road, Liverpool, 13.

London: Government Offices, 271 High Holborn, W.C.1—internal decorations—South London Decorators, Ltd., 9-11 Streatham High Road, S.W.1; Upper Edmonton—erection of branch Post Office—Thomas Bates and Son, Ltd., The Old Brickworks, Church Road, Harold Wood, Essex; Branch Post Office, Leytonstone—fitting-out public office—J. Carmichael (Contractors), Ltd., 331 Trinity Road, S.W.18.

Middlesex: National Physical Laboratory, Teddington—extensions—G. N. Haden and Sons, Ltd., P.O. Box 14, 7-12 Tavistock Square, London, W.C.1.

Norfolk: Gorleston—erection of detached house for coastguard—Holmes and Holmes, Ltd., 5 Dean Side, Great Yarmouth.

Somerset: Post Office, Bridgwater—steam heating—Richard Crittall and Co., Ltd., 36 Princess Victoria Street, Bristol; Ministry of Pensions and National Insurance, Frome—erection of prefabricated building, site works, etc.—F. Pratten and Son, Ltd., Midsomer Norton, near Bath.

Surrey: Smallfield—erection of telephone exchange—F. W. Honour and Sons, Ltd., London Road, East Grinstead, Sussex. Royal Botanic Gardens, Kew—additional boiler work—Sulzer Bros. (London), Ltd., 12 Dyott Street, London, W.C.1.

Worcestershire: Ministry of Aviation Radar Research Establishment, Leigh Senton Road, Great Malvern—resurfacing roads and new stormwater sewer—Norman W. Dunn and Co., Ltd., Coronation House, Church Street, Bromsgrove.

Yorkshire: Northallerton—erection of telephone exchange—Walter Thompson (Contractors), Ltd., Northallerton.

Post Office.—Contracts for duct laying, etc., works to the value of £4,000 and over placed during the two weeks ending Aug. 11:

Herbert Ashley, Sheepbridge Lane, Mansfield, Notts.; Hugh Brown (Engineers), Ltd., Chart Road, Ashford, Kent; James Cooper (Construction), Ltd., 28 Kensington Church Street, London, W.8; Crawford and Cryan, Ltd., 124 Stafford Road, Wallington, Surrey; W. A. Gale, Ltd., 48 Ruthven Road, Litherland, Liverpool; George H. Graham (Contractors), Ltd., District Bank Chambers, Market Street, Huddersfield, Yorks.; P. J. Maher, 12 Albert Park, Ashley Road, Bristol, 6; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; William Press and Son, Ltd., 22 Queen Anne's Gate, Westminster, London, S.W.1; Stanley Raymond and Co., Ltd., Sussex Road, Southall, Middx.; D. J. Ryan and Sons, Ltd., Oakfield, Egerton Road, Ashton, Preston, Lancs.; D. J. Sullivan (Bristol), Ltd., 16 Burlington Road, Redland, Bristol, 6; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8.

War Department.—Contracts placed for the week ended July 21:

Hampshire (Middle Wallop): building—Downer and Bailey, Ltd., Salisbury; (Gosport): sea wall repairs—G. E. Farr, Ltd., Westbury; (Aldershot): demolition—Charles Griffiths, Ltd., Barking.

Lancashire (Chorley): building—G. and J. Seddon, Ltd., Manchester.

London, S.E., 18: heating—Stitson White and Co., Ltd., London, W.1.

Monmouthshire (Beachley): building—C. Price and Son, Ltd., Abergavenny.

Nottinghamshire (Chilwell): heating—F. G. Skerrett, Ltd., Nottingham.

Shropshire (Donnington): building—A. and R. Astbury, Cannock.

Warwickshire (Bramcote): building—Thomas Bates and Son, Ltd., Kenilworth.

Yorkshire (Catterick): heating—Sander-son and Co., Leyburn.




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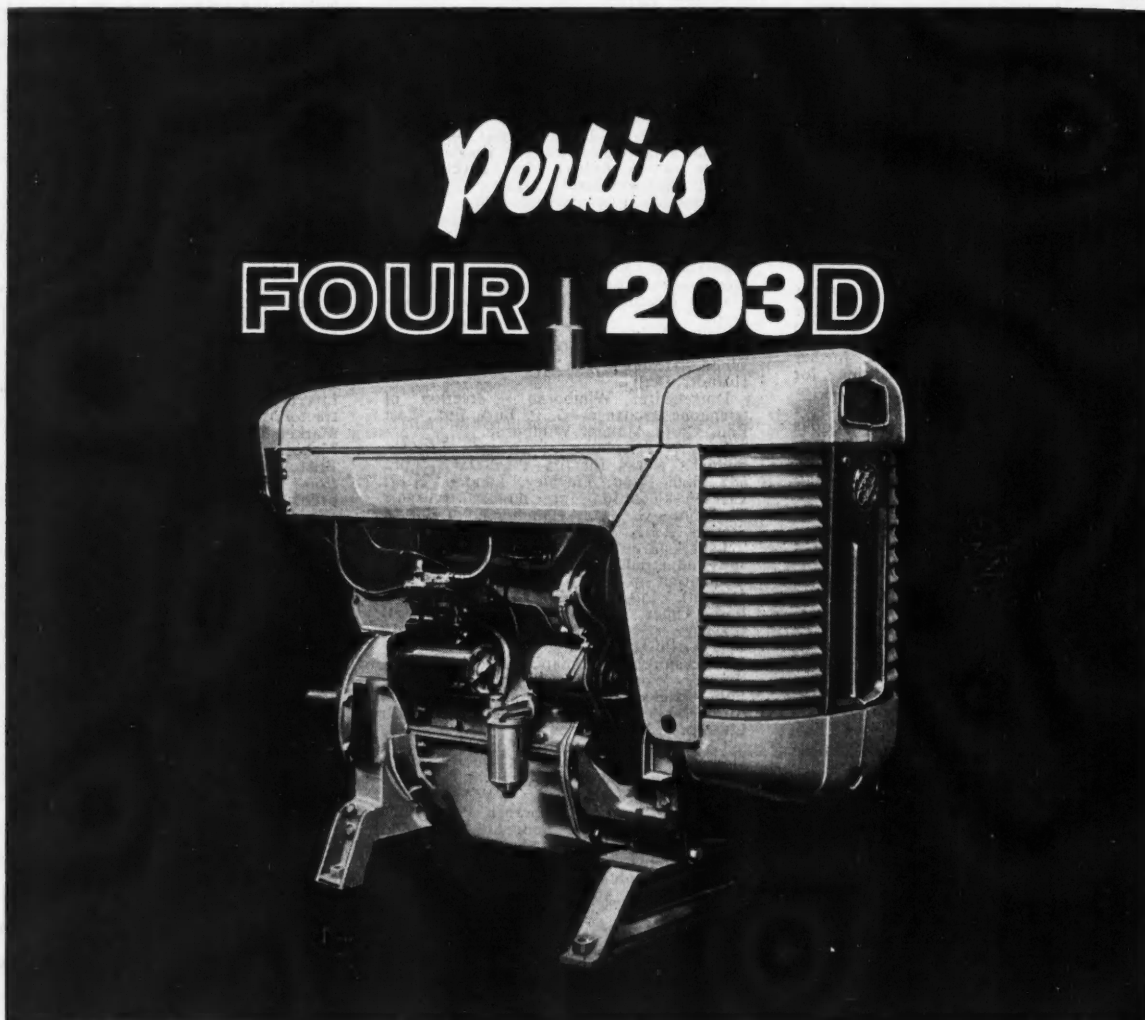
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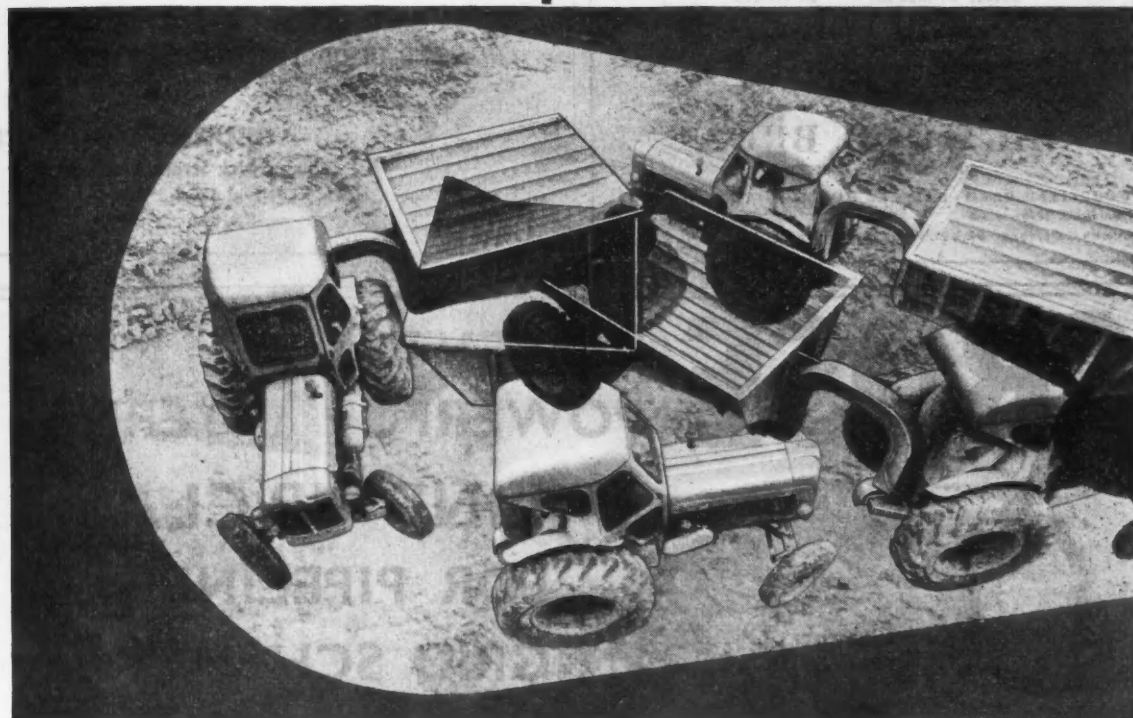
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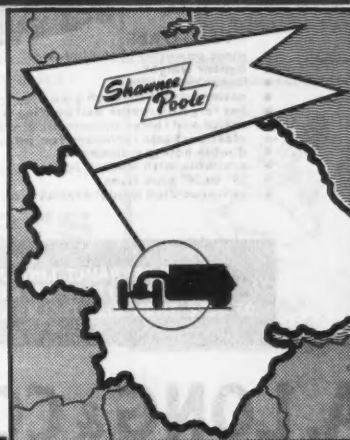


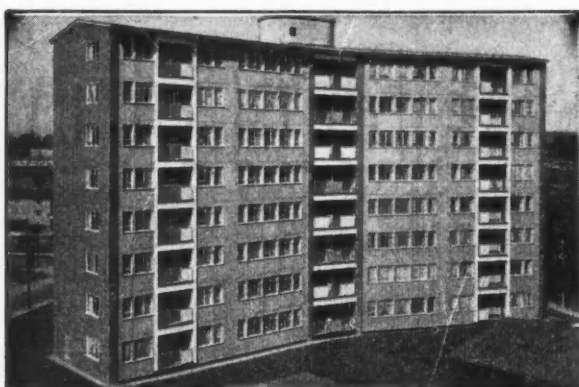
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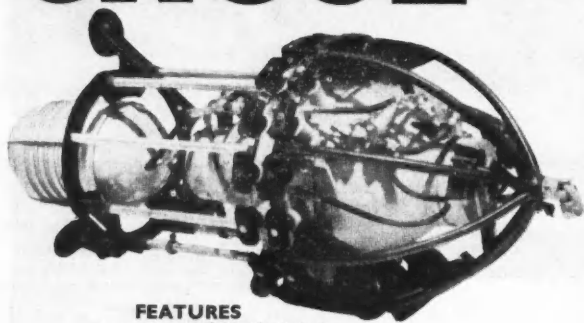
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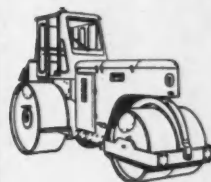
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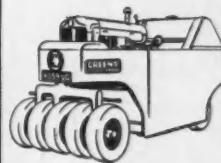
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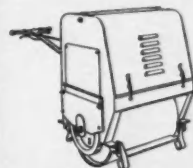
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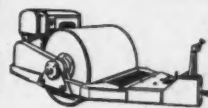
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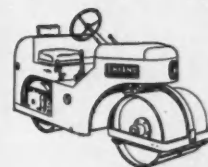
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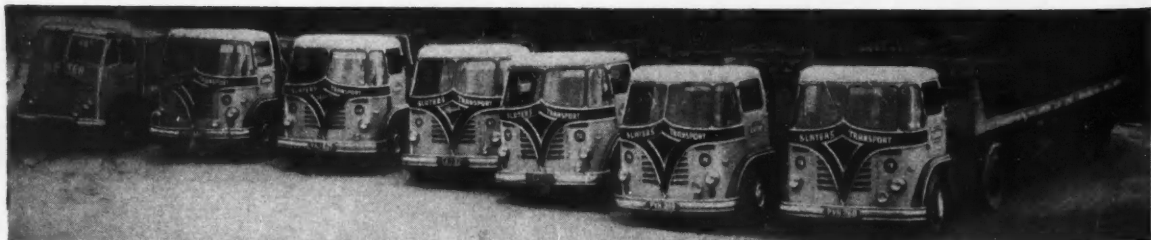


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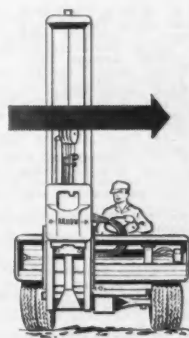
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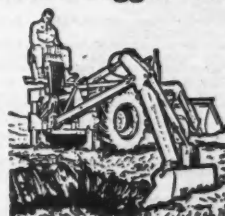
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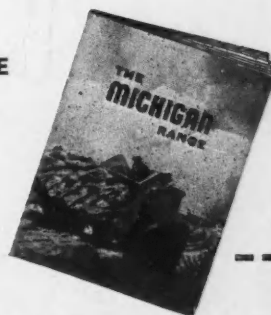
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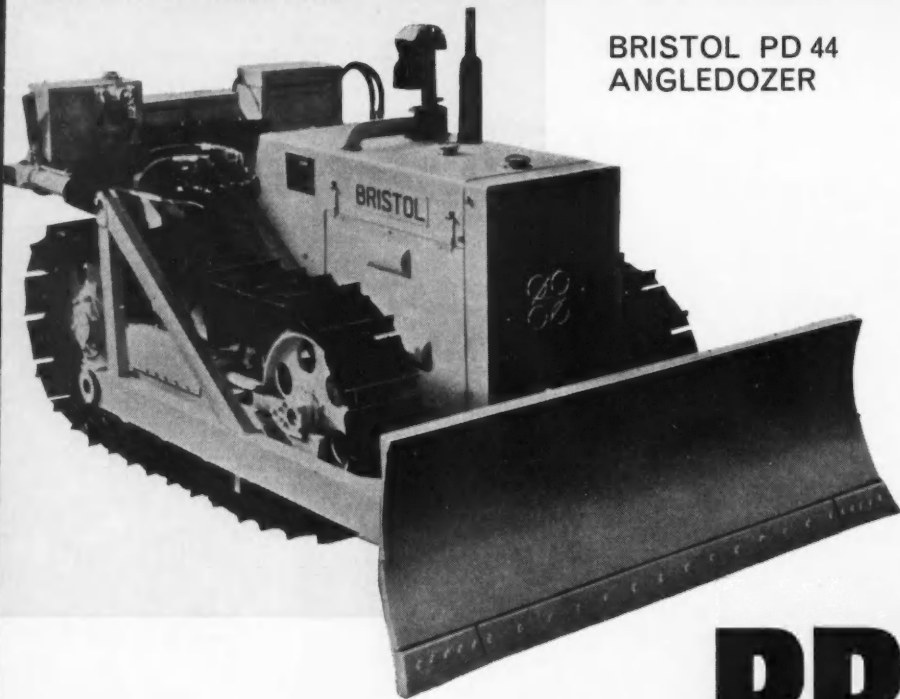
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Graham Brown, an employee of Hinckleys Ltd., is married and has a nine-year-old son. He is a very keen angler.

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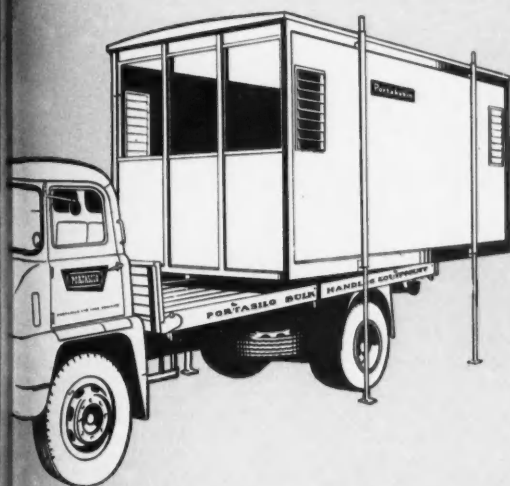
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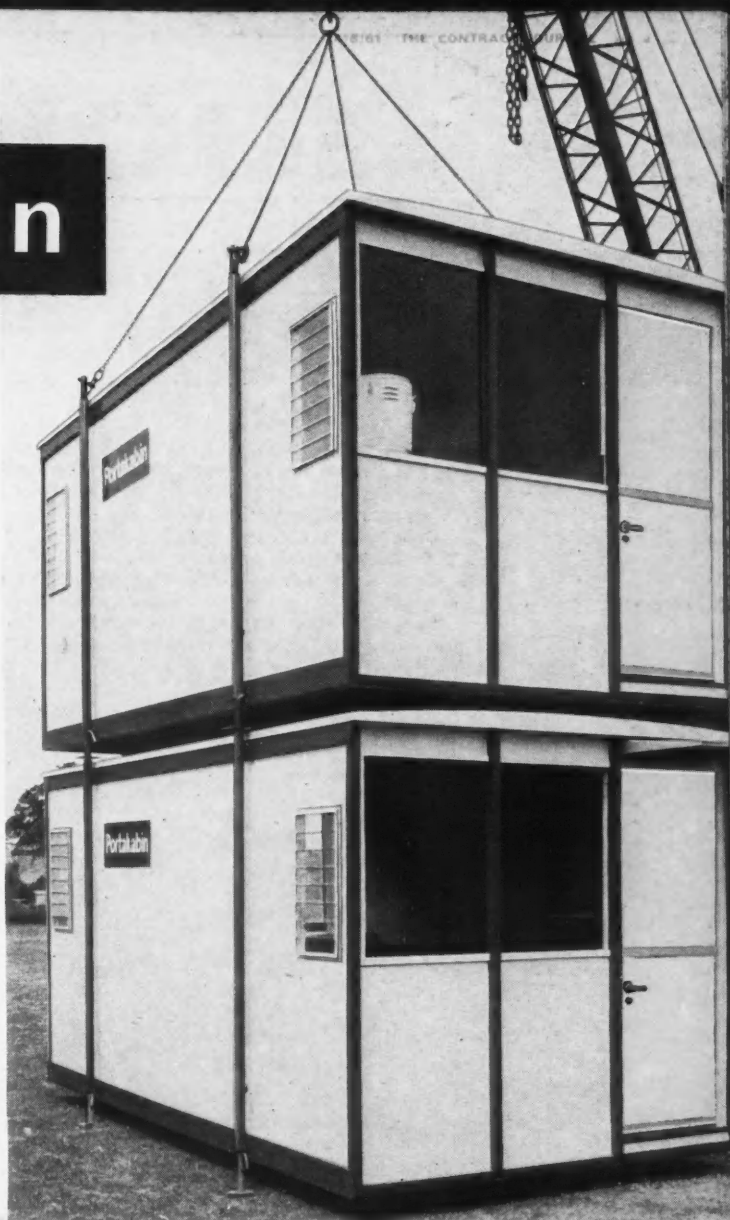
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Provides a full range of office
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**The 16' · 0" x 8' · 0" Portakabin
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"Lodastrut" telescopic legs enable rapid loading and
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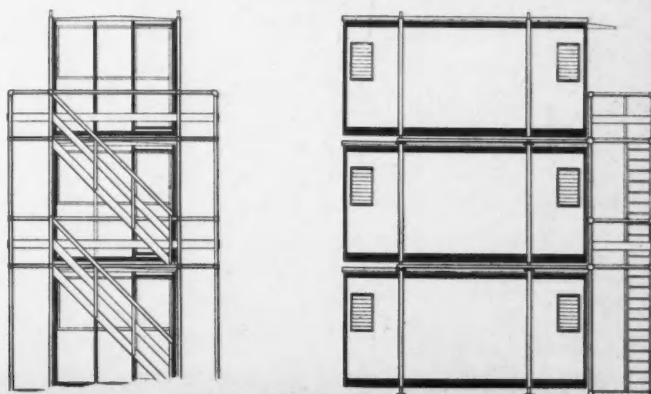
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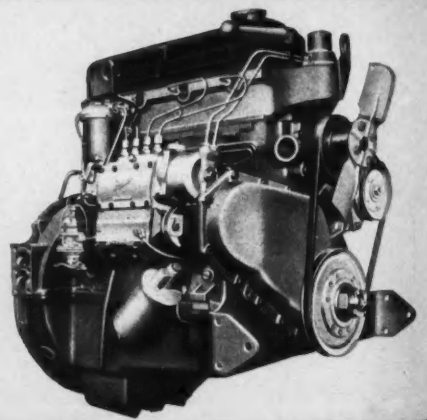
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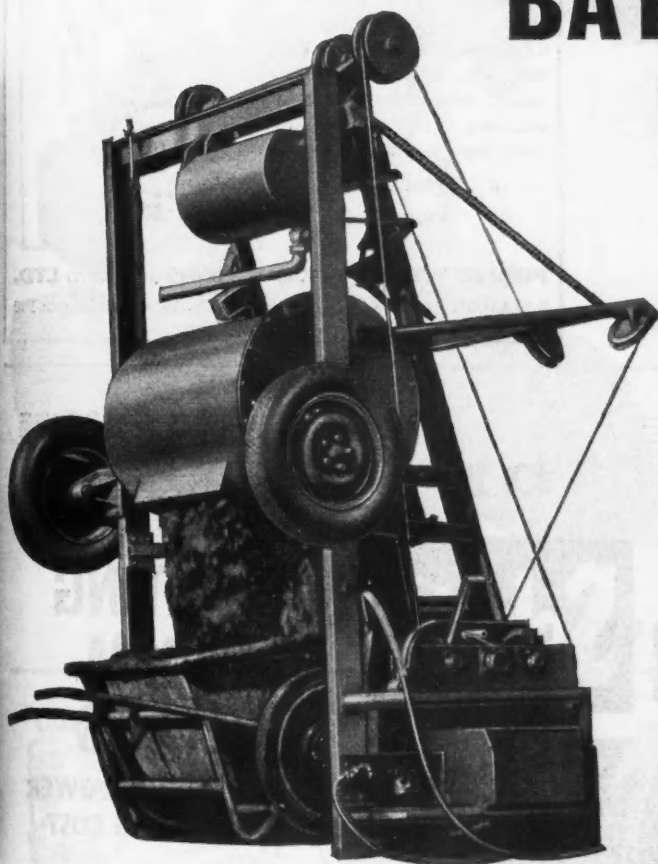
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with fast, thorough mixing action...

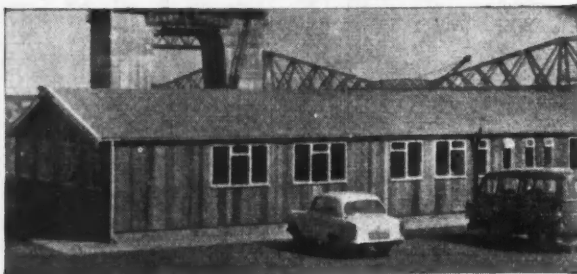
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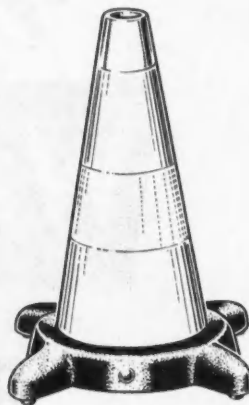


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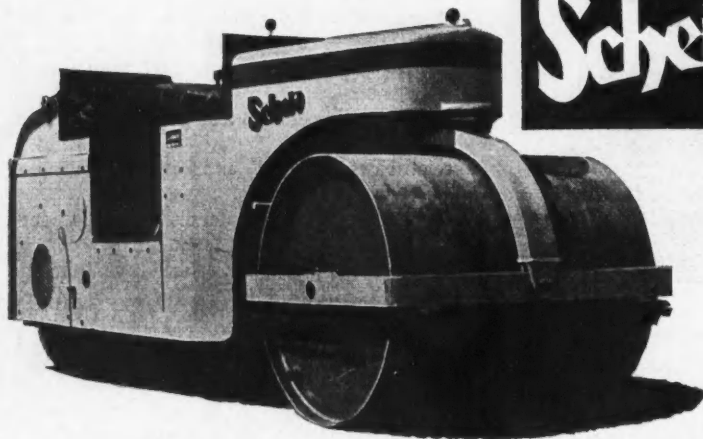


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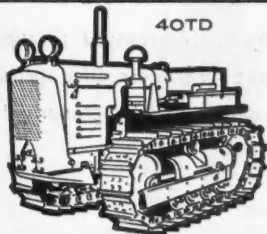
The 50TD: 50 b.h.p. 6-cylinder diesel; maximum drawbar pull 12,000 lb; range of attachments includes angledozer and hydraulic ripper. Special version available for refuse control.

The 50TD Shovel: Bucket capacity 1 cubic yard; loading cycle 5.6 secs. with maximum lift of 10 ft. 6 in.

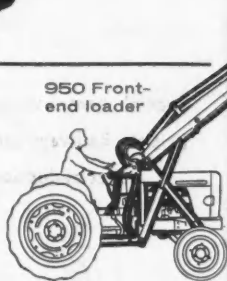
The 40TD: This latest addition to the David Brown range supersedes the well known 30TD crawler tractor, extensively used by contractors and municipal authorities. 42.5 b.h.p. 4-cylinder diesel; range of attachments includes angledozer and hydraulic ripper. Special version available for refuse control.

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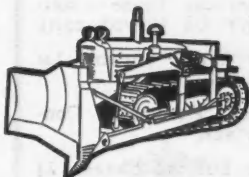
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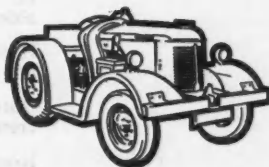
40TD



950 Front-end loader



50TD



Taskmaster



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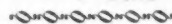
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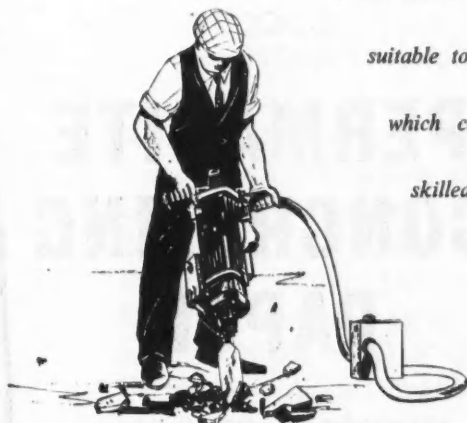
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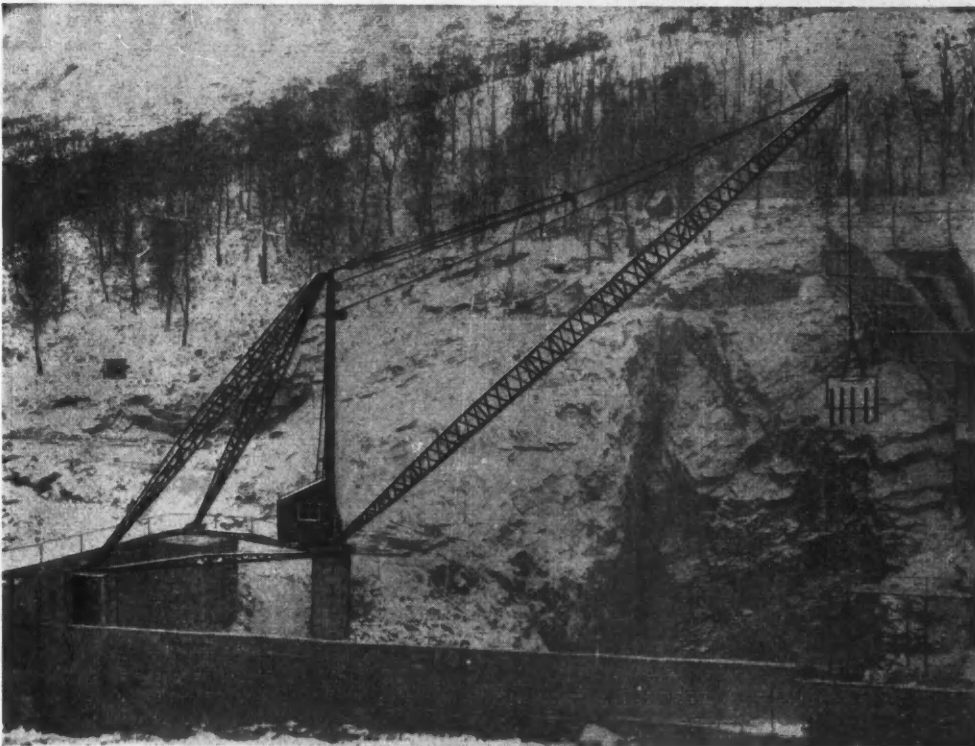
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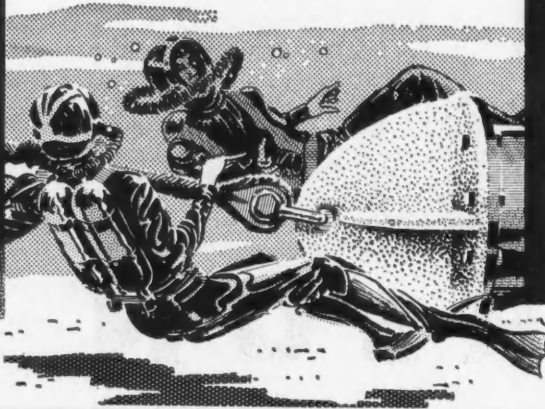
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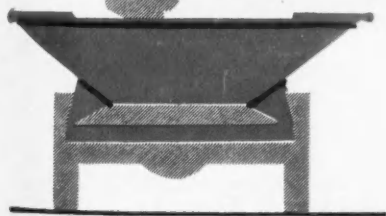
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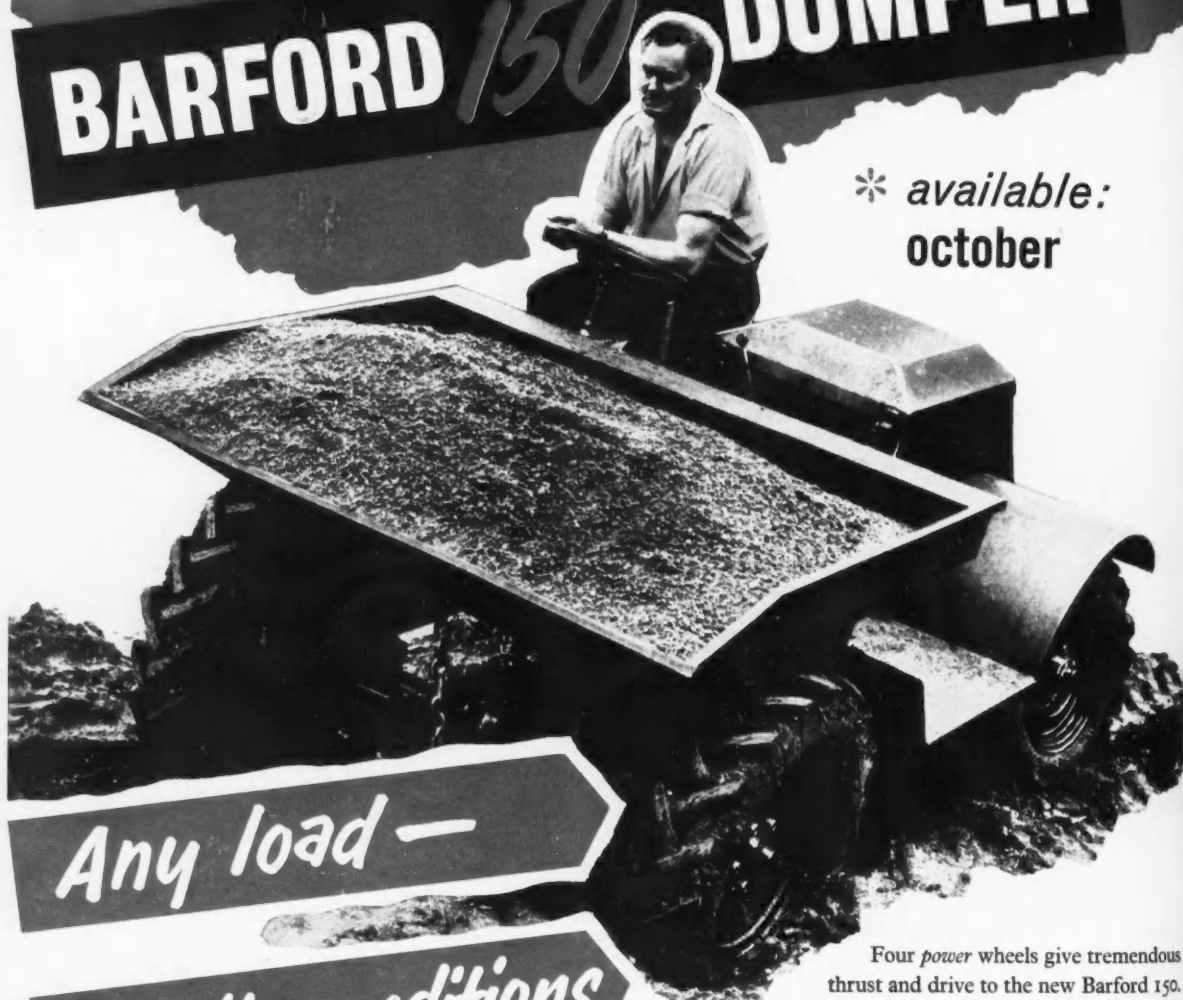
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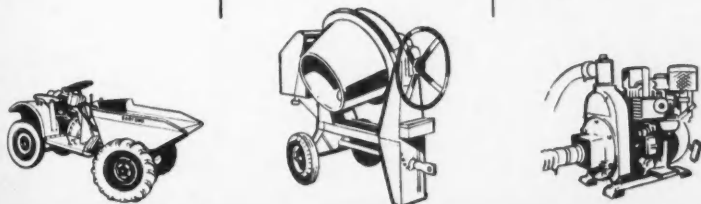
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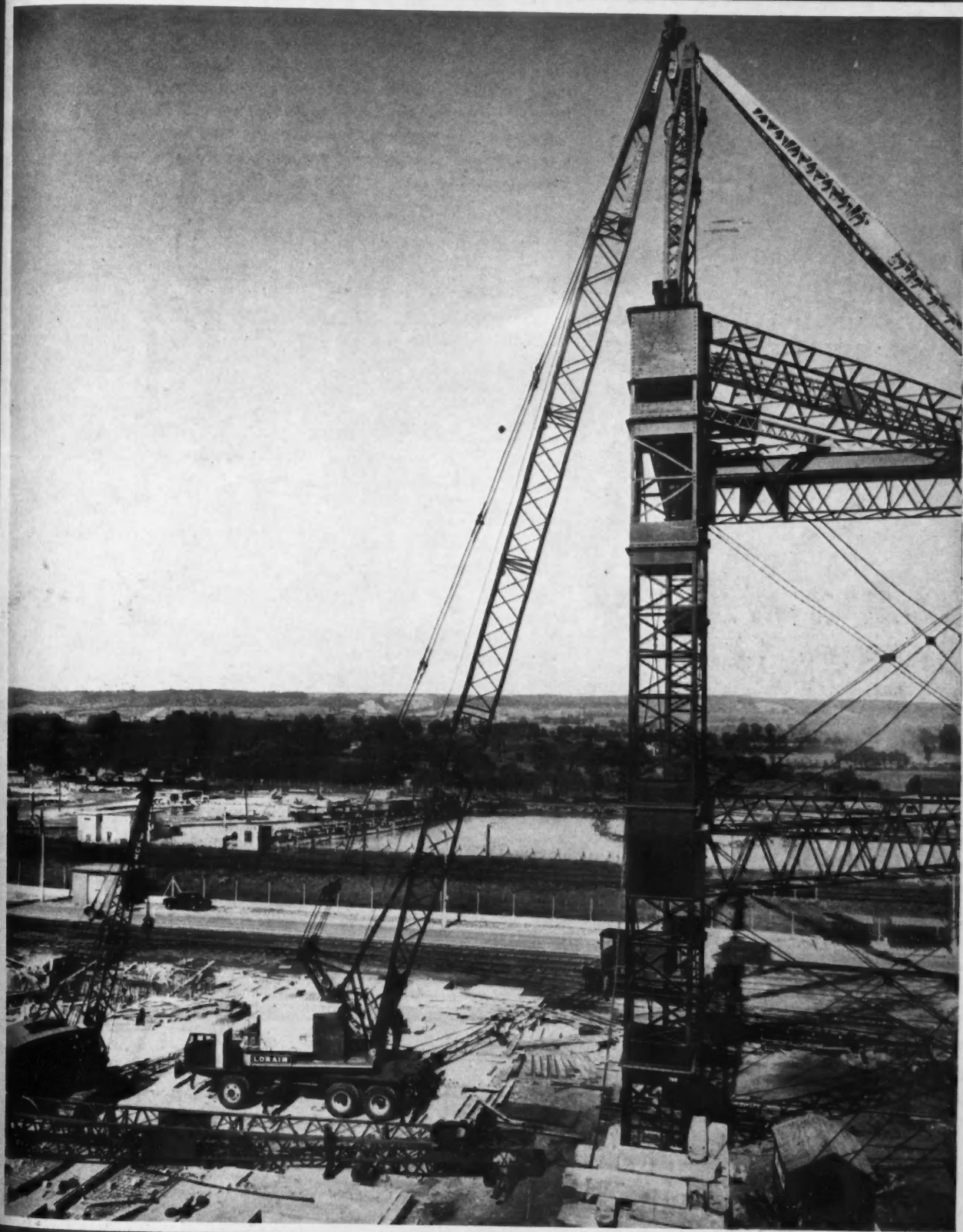
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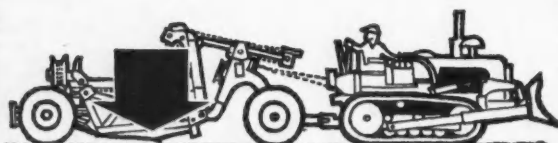


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No ordinary scraper/dozer combination this, it's the ideal unit for the smaller contractor and builder, with staying power for big jobs, manoeuvrability for small ones and round-the-clock availability. The T.M.2. open bowl scraper takes full advantage of the Track-Marshall's 55 b.h.p. and 14,000lb drawbar pull; its centre of gravity is directly over the cutting edge for faster digging, yet low enough to provide maximum scraper stability however rough the going. The Marshall Angledozer too, is built for peak performance and quick, simple adjustment but that's only to be expected, for the complete team — crawler, scraper and dozer — have been designed to work together from the word go!



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The scraper's weight is concentrated over cutting blade: loads are dug faster. Heaped capacity, 5.62 cubic yards.



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C.C.U. controls are handy to driver: operation is positive and sensitive with no stiffness or backlash

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CONTRACTORS' GUIDE TO AGGREGATES

BEDFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
HERRIS AND AGGREGATES, LTD., Northampton Rd. Quarries, Rushden (2354/5). (See Northants.)
GRAVEL PRODUCTS (HUNTS), LTD., Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.
HARTIGAN, G. F. X., LTD. (See Buckinghamshire.)
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
HOVERINGHAM GRAVELS, LTD., Hovingham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel.: 59966, 53969, 50353 (night).) (See Cambs.)
WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at: Leighton Buzzard, Bedford. Building sands.

BERKSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
BULL BROS., S. and S., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)
COFF, HARRY A., LTD., Buckhurst Hill, Chesham, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, ashes and hoggins.
CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at: Radley, near Abingdon. (Tel.: Abingdon 441.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3.) All grades washed aggregates. Path hoggins, broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
HALL AND CO., LTD., Cardiff Road, Reading. (Tel.: 3045/5.) Pits at: Thame. (Tel.: Thame 373.)
HOVERINGHAM GRAVELS, LTD., Hovingham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)
LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.) 155A Porchester Terrace, North, Paddington, W.2.
RALPH OF BASINGSTOKE, LTD., 37 Kempsott Lane, Basingstoke, Hants. (Tel.: 85.) Concrete aggregates, building sand, path gravel, hoggins, etc.

BRECKNOCKSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Prestelgne, Radnor. (Tel.: Prestelgne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel.: 961.) Salop.

BUCKINGHAMSHIRE

ASPHALT CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. Tel.: 2461. Manufacturers of all grades of gravel bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Bicester 391/2.) Manufacturers and suppliers of all grades limestone, tarmac, dry, pitching stone, hardcore, etc.
COFF, HARRY A., LTD., Buckhurst Hill, Chesham, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DRINKWATER, W. W. (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)
SRIDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3.) All grades washed aggregates. Path hoggins, broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455.) and Coronation Road, High Wycombe (Tel.: 4360/11.) and at Gerrards Cross. Pits at: Wraybury (Middx.), and Iwer (Bucks.).
HARTIGAN, G. F. X., LTD., High Street, Newport Pagnell. (Tel.: 126.) Graded and single-sized gravel aggregates to B.S.5. Pits at: Newport Pagnell and Broughton, adjoining M.1. fiver.
HOVERINGHAM GRAVELS, LTD., Hovingham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)
LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.) 155A Porchester Terrace, North, Paddington, W.2.
MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 375.)
MURRAY MACAY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DICKERSON, J. (CONTRYS), LTD., Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) All grades washed sand and gravel, reject stone, hoggins, clinker, ashes, brick rubble, ready-graded concrete (all grades).

CAMBRIDGESHIRE

HOVERINGHAM GRAVELS, LTD., Hovingham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site, Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel.: Cambridge 59966, 53969, 50353 (night).) Supplier, at keenest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hoggins, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.

CARDIGANSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Prestelgne, Radnor. (Tel.: Prestelgne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel.: 961.) Salop.

CARMARTHENSHIRE

JOHN WILLIAMS AND CO. (CRWBIN QUARRIES), LTD., ROCK PRODUCTS (KIDWELLY), LTD., both at 4 Queen Street, Carmarthen. (Tel.: Carmarthen 7781, 7837, 7031.) All grades aggregate. Tarmacadam. Lime. Road surfacing by specialists. Barber-Greene and rollers available.

CHESHIRE

BUCKTON QUARRY, broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.
CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel.: Whaley Bridge 139.) Washed sand and gravel.
CAWDOX, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S. 68. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 80904.)
CROXDEN GRAVEL, LTD., Cheddle, Stoke-on-Trent. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheddle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)
HULLAND GRAVEL CO., LTD., Cheddle, Stoke-on-Trent. (Tel.: Cheddle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)
PENMAENMAWR AND WELSH GRANITE CO., LTD., 27 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7251.) All sizes of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)
TRENTHAM GRAVEL CO., LTD., Lordley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WARDLOW LIMESTONE, LTD., Caudon Low, N. Staffs. (Tel.: Oakmoor 366.) (For details, see Staffs.)
WILLIAMS, C. F., LTD., Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel.: Stockport 7096.) Building sand and concrete sand. Bulk sand and gravel filling a specialty.

CORNWALL

PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works near St. Austell. (Tel.: Megavasey 3335/6.) Gwiltian Works, near Hayle. Pure silica gravel and grit, concreting building, plastering and whitening sands, elvan and granite aggregates, all sizes.

CUMBERLAND

BROOMBYS, LTD., Sandisle, Milnthorpe (Tel.: 3251/2). Westmorland. (See Westmorland.)
ESK MANUFACTURING CO., LTD., Calsli Brickworks, Brisco, Cumberland. (Tel.: Carlisle 2-4941.) Sand lime bricks (common and coloured facings). Ex Brisco. Concreting aggregates ex Longtown Works (Tel.: 365).

DENBIGHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel.: 961.) Salop.

DERBYSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Farwich 201 and 202.) Clean and graded dry limestone to B.S.5, all sizes: Coated limestone to B.S. 802 and 1621 and wet-mix; large outputs; reliable deliveries.
HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Meraston. (Tel.: Braistford 316.) And at Willington. (Tel.: Repton 3215.)
HOVERINGHAM GRAVELS, LTD., Hovingham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
HULLAND GRAVEL CO., LTD., Cheddle, Stoke-on-Trent. (Tel.: Cheddle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)
KEVIN LIME CO., LTD., Oakmoor 377/5. (Tel.: Oakmoor 395-396.) Clean graded dry limestone, all to B.S.5. Output 1,000 tons per day.
SALISBURY AND WOOD, LTD., Matlock (Tel.: 2727/23.) Limestone and granite, dry or coated gravel and sand, kerbs, slabs, blocks, pavers, reconstructed and broken lime and ground limestone, lightweight aggregates, ashes, red shale.
WARDLOW LIMESTONE, LTD., Caudon Low, N. Staffs. (Tel.: Oakmoor 366.) (For details, see Staffs.)

DORSET

BULL BROS., S. and L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland capstone aggregates for reconstructed stone. By road and sea.
HALL AND CO., LTD., 8 Commercial Road, Parkstone. (Tel.: 5379.)
MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates building sand, hoggins, path gravel.

ESSEX

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.
BAKER, F. AND B., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore, ashes and bricks.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
BUCCHICKS COMPANY, LTD., Colchester. (Tel.: Ardleigh 310.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers requirements.

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRIS PITS, LTD., The Limes Garage, Fencote Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered, also hardcore.

HALL AND CO., LTD., Major Road, Romford. (Tel.: Romford 42321.) Pits at Upminster, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.

HOVERINGHAM GRAVELS, LTD., Hovingham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HUNNABY, LTD. AND SONS, LTD., 1 Warr Road, Braintree, Essex. (Tel.: Braintree 151 and 1531.) Graded washed stone, 1/4 in. to rejects; washed concrete sand and washed soft building sand. Classified sand for asphalt. Ready mixed concrete to all grades. Pits at Braintree, Bocking, Bosiley End, Hedingham and Alpheton.

KENRICK, W. LTD., 92 Waterloo Road, Romford, Essex. (Tel.: 42481/2.) Supply and deliver all grades of sand, ballast and shingle, asphalt grits, granite aggregate. Rubbish clearance. Tip available at Upminster.

LEIGH BUILDING SUPPLY CO., LTD., Head Office: 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78264—5 lines.) All grades washed material: building sand, hardcore, ashes, bricks, ready mixed building sand, hardcore, ashes, bricks, ready mixed building sand, hardcore, ashes, bricks, ready mixed building sand, hardcore, ashes, bricks, ready mixed building sand.

PETERS AND BARNHAM, LTD., 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; Sand Pits at Asheldham, Chignall St. James, Dagenham, Great Waltham, North Ockendon, Rowxell, West Thurrock, Romford and Thorpe-le-Soken.

PIRM, L. A. AND A., LTD., Upper Rainham Road, Elm Park, Hornchurch, Essex. (Tel.: Hornchurch 48912/3/4.) Haulage, all aggregates and excavation.

READ, P. T., LTD., Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 61112/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.

ST. ALBANS SAND AND GRAVEL CO., LTD., London Colney, St. Albans, Herts. (Tel.: Bowmans-green 2271.) Pits at Meadgate Road, Nazling; Abbey Road, Waltham Abbey.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4 and Halstead 2323.) Pits at St. Ives and Gt. Gidding, near Halstead.

STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.

WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High quality washed aggregates of all grades.

GLOUCESTERSHIRE

BENGRIY AND SONS, LTD., Longmoor, Kingland, Leominster, Herefordshire. (Tel.: Kingland 301/4.) (See details under Herefordshire.)

COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/476/4.) Sand, graded gravel aggregates, hardcore, limestone, graded aggregates supplied or delivered. Concrete blocks, fence posts, etc.

CROMHALL QUARRIES, LTD., Cromhall, Wotton-under-Edge, Glos. (Tel.: Failand 3461/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.5. for hand or machine laying.

GRIFFITHS, A., AND SONS, Churchdown, Gloucester. (Tel.: Churchdown 3135 and 2216.) Lrt. quarry waste. Graded aggregates supplied or delivered. Sand and dredger owners. All grades and types aggregate materials.

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol. (Tel.: Ashton Vale 3001/2.) Graded aggregates, concreting, plastering and building sand.

HOVERINGHAM GRAVELS, LTD., Hovingham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

NORTH WILTS. QUARRYING CO., Noble Street, Sherston, Wilts. (Tel.: Sherston 321—3 lines.) (For details see entry under Wiltshire.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Dours" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, red stones, and Dolomite media.

TAYNAC, LTD., Wootton Bassett, near Swindon, Wilts. (Tel.: Wootton Bassett 391—3 lines.) Cotswold stone, hardcore, washed and graded aggregates, building sand.

Rates for insertion in this GUIDE will be forwarded on application

CONTRACTORS' GUIDE TO AGGREGATES

GLOUCESTERSHIRE

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tared and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

BULL BROS. S. AND L. LTD., 126A High Street, Winchester. (Tel.: 2264.) Concrete aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggin, path gravel and sand from own pits at Fawcett, Lockerley, Ringwood, Romsey, Swan and Totton.

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

HALL AND CO., LTD., Baltic Wharf, Marine Parade, Southampton. (Tel.: Southampton 21234.) and at Portsmouth. Pits at Ringwood, Highbridge and Fawley. Gravel aggregate, concreting, plastering and building sand.

HASKINS, G. AND SONS, Queen Street, Emsworth. For washed sand, graded aggregates, path and road gravels, hoggin, clinker, ashes. (Tel.: Emsworth 2271.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed crushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

NORTH WILTS QUARRYING CO., Noble Street, Sherston, Wilts. (Tel.: Sherston 221—3 lines.) (For details, see entry under Wiltshire.)

PRIVETT, W. G. AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.

ALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel.: 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

WICKENHAM GRAVEL CO., LTD., Ship Lane, Farnborough (Tel.: 1126); Sandhurst Road, Yateley (Tel.: 2230.)

HEREFORDSHIRE

BENGRI AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metal, pitching stone, hardcore and coated macadam.

OVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

NASH ROCKS STONE AND LIME CO., LTD., Prestelgne, Radnor. (Tel.: Prestelgne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.

OLD RADNOR TRADING CO., LTD., Kingston (Tel.: 421.) Granite and limestone aggregates, coated macadam, concrete products.

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, roadstones, and Dolomitic.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Braxton pit. (Tel.: Hoddeston 2456.) Producers and distributors of all grades of washed aggregates.

GABRIEL, C. LTD., Palmes Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.

HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel.: 775.) and at Hatfield. Gravel aggregates, concreting, plastering and building sand.

HARTIGAN, G. F. X. LTD. (See Buckinghamshire.)

ST. ALBANS SAND AND GRAVEL CO., LTD., London Colney, St. Albans, Herts. (Tel.: Bowmans-green 2271.) Pits at Smallford Lane, Smallford, and Bramfield Lane, Watford, Marsh Road, Stansstead Abbots.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WICKENHAM GRAVEL CO., LTD., Eleanor Cross Road, Waltham Cross. (Tel.: 23388.)

WEBB, G. CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel.: 59966, 53969, 50353 (night).) (See Cambs.)

WINFIELD HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggin, building sand.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

FERRERS SAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (239/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

NINE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel.: 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

HUNTINGDONSHIRE

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

WEBB, G. CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel.: 59966, 53969, 50353 (night).) (See Cambs.)

KENT

BRASTED SAND PITS, Brasted, Kent (Tel.: 586). London Office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3357.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.

BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hoggin, hardcore, clinker, chalk, etc.

CLUBB, J. LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.

DIAMOND TREAD CO. (1938) LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners, tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)

DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.)

HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051.) and at Folkestone and Hayes. Pits at Lunford, near Larkfield, Riverhead. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P. AND CO., LTD., Station Road, Paddock Wood, Kent (Tel.: 385.) (See Sussex.)

TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMEYS, LTD., Sandisle, Milnthorpe (Tel.: 3251/2), Westmorland. (See Westmorland.)

BUCKTON QUARRY, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, near Rochdale. (Tel.: Castleton 57100.) Leamington, Wacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.

CROXSON GRAVEL, LTD., Cheadle, Stoke-on-Trent. (Tel.: Stoke-on-Trent 32186.) Plant capacity, 2,000 tons per day.

HAINES, JOHN W. LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all construction purposes.

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Btfs. (Tel.: Tean 241.) And at London, Stoke-on-Trent, Preston 32186.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. B.S. 4. (Tel.: Chorlton 2274/5.)

KELMAC, LTD., 54 Deasdale Road, Preston, Lancashire. (Tel.: Preston 4688/9.) Bituminous, tarred and waterbound macadams. Dry roadstone, sized and graded limestone aggregates. All to B.S. and M. of T. Specifications.

PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock. Liverpool and Preston Depots: Office: 7 Picton Road, Liverpool, 18. (Tel.: Setton Park 7261.)

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Shrops. (Tel.: Hales 2612/3.) (See Staffs. for details.)

TRENTHAM GRAVEL CO., LTD., Lordesley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pine Gate 504/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plant capacity: 2,000 tons per day.

WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.

X.L. GRANITE (INGLETON), LTD., Head Office: Clapham, via Langston. (Tel.: Clapham 318/9.) Works: Telford, Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) Best Leicester shire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt rail/road delivery.

CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 5612/3.) Granite aggregates to B.S.S. All sizes, tarmac and bituminous granite, concrete slabs and kerbs, in washed granolithic aggregate.

DUSTON QUARRIES, LTD., New Duston, Northampton. (Tel.: Brighthelm 278 and 288; Duston 505.) (See Northamptonshire.)

ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 20811.) Quarries at Enderby. London Office: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)

HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Brighthelm 278 and 288; Duston 505.) (See Northamptonshire.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MOUNTSOREL GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 20891.) Quarries at Mountsorel, near Loughborough. In situ pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

LEICESTERSHIRE

WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)

WRAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pit—Rotherby 205 or head office Melton 2489.) All grades washed aggregates and sand, transit mixed concrete.

LINCOLNSHIRE

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 2322.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex quarries or delivered.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castle-dyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

GIBBONS, F. B. AND SONS, LTD., Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Lough, near Peterborough. (Tel.: Market Deeping 3321/2383.)

HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincs. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23591.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HURDIS, J. W. LTD., Victoria Street, Grimsby. (Tel.: Grimsby 3657.) and Caistor (Tel.: Caistor, Lincs., 281.) Building, plastering, concreting sand; also gravel, ballast, hoggin & roadmaking materials.

PETERBOROUGH QUARRIES, LTD., Sandvans, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northants.)

POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and gravel aggregates. For Supermac ready mixed concrete, phone Market Deeping 3132.

TRENTFORD GRAVELS, LTD., Head Office: Deansrope, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

BUCKICKS CO., LTD., 37 Piaz, Chancery, Covent Garden, London, W.C.2. (Tel.: Covent Garden 0534.) All grades of washed aggregate, sand, building sand, asphalt, grit. Sterilised dry sand accurate to gradings to buyers' requirements.

COX, H. AND SONS, LTD., 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rotherby 2215—3 lines.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: Hampstead 8044/8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerbs and setts, felspar quartz and other minerals by road or rail, or ex London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)

DRINKWATER, W. W. (WILLEDEN), LTD., Duden Hill Lane, Willesden, N.W.10. (Tel.: GLADSTONE 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C. LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.

HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1 (Tel.: Sloane 7122.) and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.

HARTIGAN, G. F. X. LTD., Washed sharp sand to B.S.S. 882. (See Buckinghamshire.)

KEEN, W. J. AND SONS, LTD., Granville Road, Epsom, Essex. (Tel.: Epsom 1520.) All sands, ballast, shingle and hardcore supplied.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5041.) 155A Porchester Terrace North, Paddington, W.2.

READ, P. Y. LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta red and golden brown. (See Glos.)

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

MIDDLESEX

CROSS, GEO. C. AND CO., LTD., Uxbridge Road, Southall. (Tel.: Southall 516/5/6.) Concrete aggregates, hardcore, excavations, demolitions.

DRINKWATER, W. W. (WILLEDEN), LTD., Stain Rd., Hounslow Hth., Middx. (Hounslow 922/3.)

GABRIEL, C. LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.

GRUNDON, S., 100/104 Harrington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 36511/2/3.) 3rd ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1 (Tel.: Sloane 7122.) and at Ashford and Brentford. Pits: Bedford and Shepperton. Gravel aggregates, concreting, plastering and building sand.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5041.) 155A Porchester Terrace North, Paddington, W.2.

CONTRACTORS' GUIDE TO AGGREGATES

MIDDLESEX

TWICKENHAM GRAVEL CO., LTD., Feltham Hill Road, Hanworth. (Tel.: Feltham 2635.)
READ, P. T., LTD., Gales Gardens, Bethnal Green, E.5. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready-mixed concrete. Pits: Edmonton Gravel Pit, Montagu Road, N.9 (Tel.: Shoreditch 9128/9); and Fairlop Airfield, Forest Road, Ilford (Tel.: Hainault 6111/2).
STUART MACY, LTD., Gordon Rd., High Wycombe. (Tel.: High Wycombe 2591/2.)

MID-WALES

BENGRI AND SONS, LTD., Llanmorog, Kingsland, Llanmorog, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kingston 421.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.
TERN HILL SAND AND GRAVEL CO., LTD., Amlington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chepstow Road, Newport, Mon. (Tel.: Newport 55311/2.) Suppliers of all grades of concrete aggregates, road metal, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.
SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing. Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)
WHITELIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: 3158/9.) (See Gloucestershire.)

MONTGOMERYSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4 and Coney Weston 12.) Pits at St. Ives and Kettlethall, near Thetford.
SNITTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at Snitterton. Concrete aggregates, building sand.
THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 3323/4.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
BICESTER STONE CO., LTD., Stratton Audley 391/2.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.
SHAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates, stone, hardcore, etc.
HOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone, roadstone, hardcore, broken stone, ashes, sand, gravel and hoggins. Immediate delivery throughout Northamptonshire.
FERRISSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2363.) (See Lincolnshire for details.)
HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKANESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Memmortar (lime-sand mortar). Prompt deliveries.
NINE BARGE AND LIGHTER CO., LTD., Market Deeping Quarries, Wansford, near Peterborough. (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.
NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2353.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.
POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

STORTON, F. B., LTD., Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.S.

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-vn-lal 27.) Crushed limestone and tarred macadam, all grades.
CHESHIRE AND NORTH WALES TARRIED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-vn-lal 43.) Hard, broken limestone; dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 8809/4.)

ENSTON BROS., Llyn Isaf Quarry, Clynogfawr, Caernarvon. (Tel.: Clynogfawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Penwynn and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Llanrwst 38.)

GWALCHMAI GRANITE QUARRY, Anglesey, Proprietors: The North Wales Construction Co., Ltd. (Tel.: Gwalchmai 292.) All sizes dry and coated granite materials, hardcore, filling, ready mixed concrete, etc.

PENMAENMAWR AND WELSH GRANITE CO., LTD., Quarries at Penmaenmawr (Tel.: 2256/8), and at Trevor (Tel.: Clynogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD. (a member of the Lunt, Comley and Pitt Group), Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., Gazette Buildings, 168 Corporation Street, Birmingham (Tel.: Central 7468), and Lunt Bros., Ltd., Stourbridge (Tel.: S201—8 lines).

TERN HILL SAND AND GRAVEL CO., LTD., Amlington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

AIZLEWOOD, DOUGLAS E., Bow Bridge, Rotherham. (Tel.: Rotherham 2622.) Crushed and graded limestone; all grades of washed gravel and sands.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete sand, building sand, plastering sand, and quarry gravel; could be collected ex quarry or delivered.

GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme Pierrenont, Bleasdale and other quarries. Deliveries in 21 counties. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Combined plant capacity 20,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove St., New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

NORTH NOTTS. GRAVEL CO., LTD., Bellmoor, Retford, Notts. (See Yorkshire.)
SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley 391/2.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S. (EWELEME), LTD., Eweleme, Ozen, Oxbridge 36511/2/3.) All grades washed aggregates. Path hoggins, broken stone, building sand.

HALL AND CO., LTD., Cardiff Road, Reading. (Tel.: 50458.)

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

SNITTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Roadstone, Cotswold building and walling stone.

RADNORSHIRE

BENGRI AND SONS, LTD., Llanmorog, Kingsland, Llanmorog, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kingston 421.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

RUTLAND

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2363.) (See Lincolnshire for details.)
HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2353.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

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BENGRI AND SONS, LTD., Llanmorog, Kingsland, Llanmorog, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DORRINGTON SAND AND GRAVEL QUARRIES, near Shrewsbury. (Tel.: Dorington 276.) Supplies of ready mixed concrete, building sand, washed sand, washed and crushed gravel.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kingston. (Tel.: 421.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Amlington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

TRENTHAM GRAVEL CO., LTD., Lordesley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed and washed gravel. Twice washed sharp concreting sand, plastering sand. Plant capacity: 2,000 tons per day.

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DANGERFIELD, F. J., AND CO., LTD., 216A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concrete, plastering and building sand.

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KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385/386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

SHIRE OAK GRAVELS, LTD., (See Staffordshire.)

WARDLOW LIMESTONE, LTD., Cauldon Low, N. Staffs. (Tel.: Oakamoor 366.) (For details, see Staffs.)

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HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385/386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kingston, Tel.: 421.) (See Herefordshire.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

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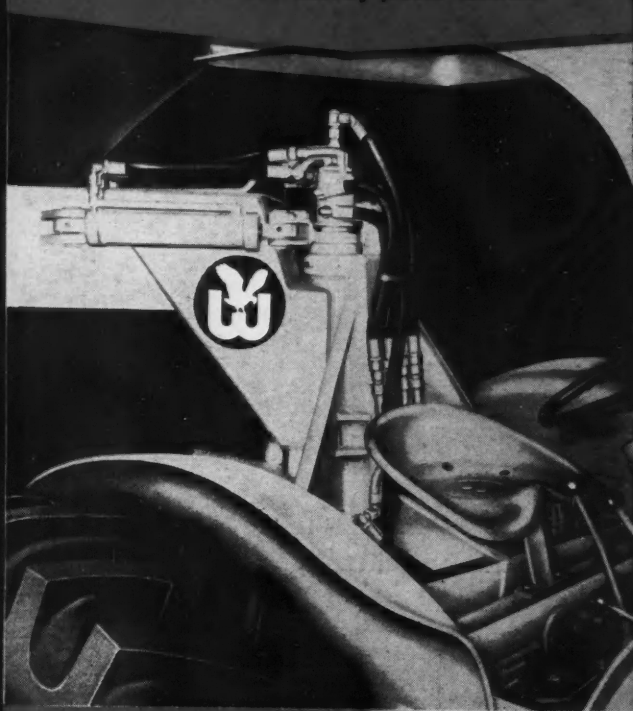


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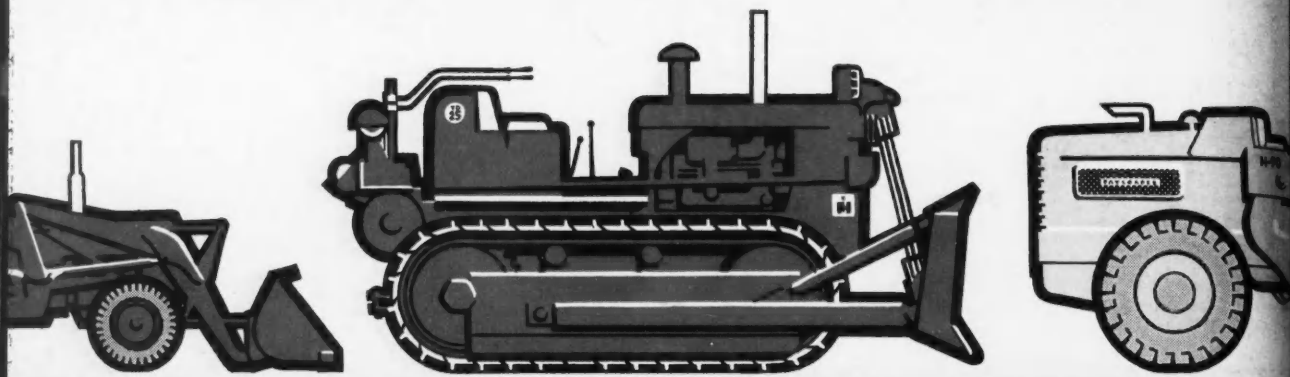
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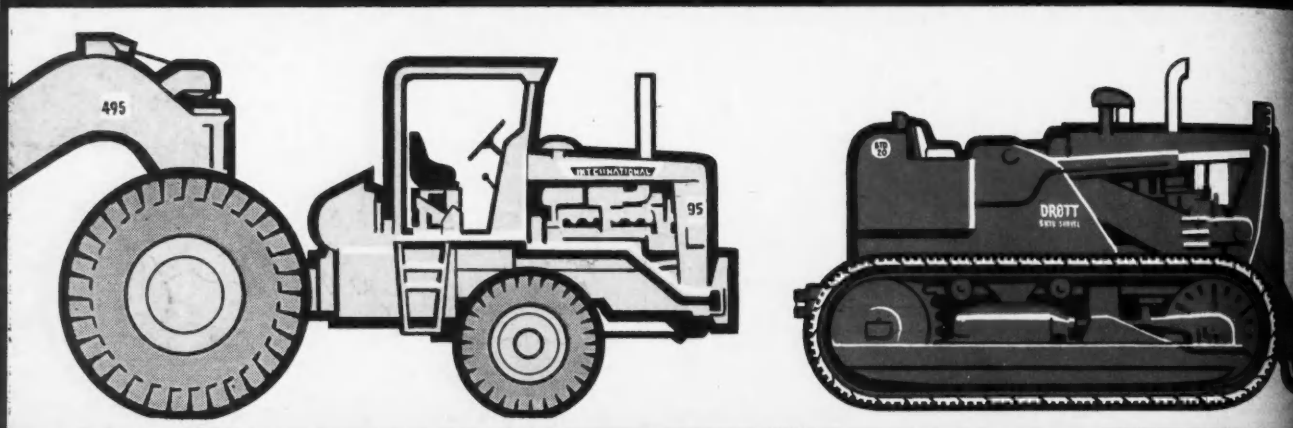
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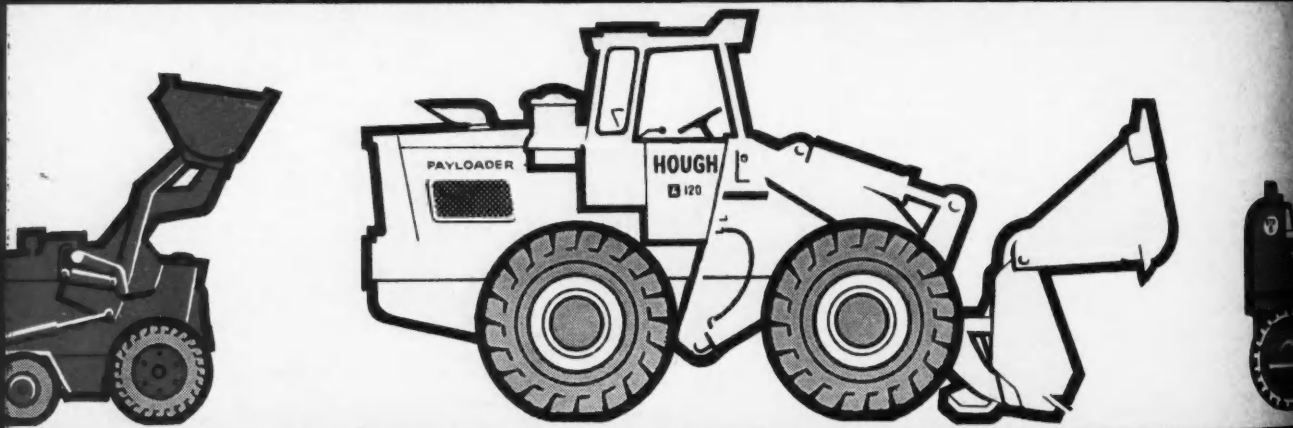
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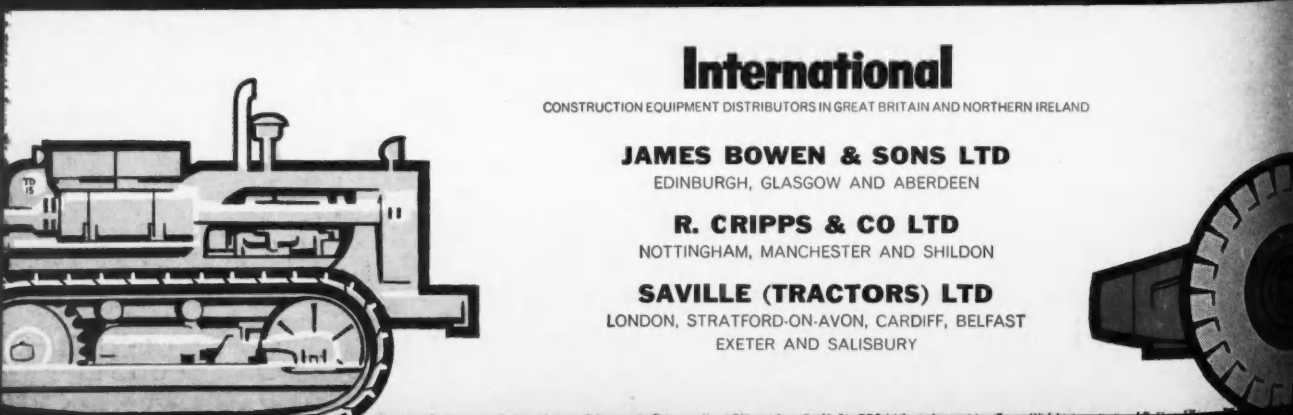
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